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Jackill's STAR FLEET REFERENCE MANUAL

Ships of the Fleet Volume III



3

Written and Illustrated by
Eric Kristiansen

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Dedication

To Chris Hatfield

Thanks for all of your help on my books

Intro Info

Welcome reader to the first edition of Jackill's Star Fleet Reference Manuals. The descriptions of these futuristic vessels are a critique of their abilities and are related in contemporary terms as accurately as possible. The technology described here can be compared to existing technologies in other books, on television and in the movies. Hopefully, the information herein will provide a base of knowledge allowing one to understand the advancements required to achieve this level of technology. The book is presented in a futuristic format for reading enjoyment and should not be confused with any material from that time period.

The information contained in this manual is as accurate as allowed due to Star Fleet's ongoing program of misinformation intended to confound and confuse the intelligence efforts of potentially threatening forces. For high-level accuracy, consult Star Fleet archives.

Although not all statistics are given, all descriptions, drawings and statistics are intended to familiarize the reader with these vessels. Numerical statistics, such as weight and length, are given with the highest degree of accuracy available at the time of publication.

Read on fellow traveler, I hope that the information provided will increase your understanding of Life, the Universe and Everything.

Jackill

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 Section _____
 Ship _____
 Ship Detail _____

INTRODUCTION

Statistics

This is an overview of what some of the statistical information you will run across in this reference manual mean.



Acceleration Power: Is the value that a warp number is raised to to determine its speed as a multiple of light.

Acceleration Rate: Lists the various times it takes to accelerate the vessel through sublight speeds.

Acceleration Time: Lists the time it takes to accelerate from one warp value to the next. It should be noted that although an acceleration time may be given, the craft may not be designed to reach that speed without disintegrates.

Beds: Lists the number of beds in the medical facility.

Bottom Profile: This profile is used for familiarization of the bottom view of the vessel.

Breachdown Rate: Is the amount of power in watts that will eventually break down the shields if applied constantly.

Brigs: Lists the number of detention cells.

Cargo Specifications: Lists the number of standard cargo units and the cargo capacity of all the containers.

Category: Lists the general classification of the ship such as frigate, destroyer, brighter, etc.

Class Emblem: Each ship class is given a distinct logo design to represent the entire class.

Classification: Lists the exact designation of the craft, such as assault frigate or attack frigate.

Class: Is the name assigned to distinct vessel designs to distinguish one design from another. An example being one heavy cruiser from another heavy cruiser design.

Shielding Device: Lists if the vessel is equipped with a shielding shield.

CPU: Central Processing Unit (Computer).

Computers: Lists the number and type of computers onboard.

Cross Section: This cut away view is used for general familiarization of the interior arrangement of the vessel.

Cross Section Area: Lists the optimum cross section area that the warp field has for each profile.

Disruptive Speed: Is the speed at which the vessel will start to tear apart due to excessive stress.

Dimensions: Listed in meters for various parts of the ship from the primary hull to the propulsion systems.

Doctors: Lists the number of medical doctors that are normally onboard.

Dry Dock Area Usage: Gives the usable construction area inside the dry dock for its standard configuration.

Dry Dock Profile: Gives top, port and front views of the dry dock with an Enterprise Class Heavy Cruiser used to give a reference of the facility's size.

Duration: Is given for both standard (years between upgrades and maximum (maximum years until the craft must be rebuilt) missions.

ECM Index: Is given as general guide to the craft's ability to evade detection. The index norm is based on the Heavy Cruiser.

Emergency Condition: Is the additional number of people that the craft can carry in an emergency.

Emergency Speed: Lists the fastest that the craft can travel for very short periods of time. The longer the craft travels at this speed the more the engines and hull are damaged.

Field Length: Is the optimum warp field length based on craft.

Field Width: Is the optimum warp field width based on craft.

Field Width: Is the optimum warp field width listed in meters.

Front Profile: This profile is used for familiarization of the front view of the vessel.

General Information: Is used to deliver additional information about the vessel.

Heald Power: Is given in watts and determines the power level that will break the shields.

Hertz (Hertz): Cycle per second.

Impulse Engine Output: Lists the engine output in watts.

Impulse Power Index: Is given as general guide to the vessel's overall impulse power. The index norm is based on the Heavy Cruiser.

Impulse Unit: Lists the impulse engine model number.

Laboratories: Lists the number of individual laboratories.

Max. Cruising: Lists the maximum speed that the impulse drive can propel the vessel.

Maximum Speed: Lists the fastest that the vessel can travel for short periods before complete engine destruction.

Max. Safe Cruising: Lists the warp that the vessel can travel without substantial decrease in handling and safety. This speed is the fastest that the craft can travel without damaging the engines.

Medical Facilities: List the statistics of the medical facility.

Model: Is a Roman numeral that is distinct to each vessel category for each type/class.

Naval Construction Contract: Lists the number series assigned to that particular vessel series for construction and vessel registration.

Number Constructed: Lists how many vessels have been built.

Number in Service: Lists how many vessels are on active duty.

Number Lost: Lists how many vessels have been destroyed or decommissioned for various reasons.

Number Proposed: Lists the number of vessels that are to be built.

Person: Lists the number of persons that are normally aboard.

Operating Speed: Lists the number of fully equipped operating rooms.

Optimum Warp: Lists the warp that the vessel travel with the best fuel-distance ratio with minimal wear to the engines.

Output: Listed in watts for each shot for both burst and continuous fire, if available.

Passenger: Lists the number of passengers that the craft may carry.

Port Profile: This profile is used for familiarization of the port view of the vessel.

Photon Power Index: Is given as general guide to the vessel's photon power. The index norm is based on the Heavy Cruiser.

Photon Power Index: Is given as general guide to the vessel's photon torpedo power. The index norm is based on the Heavy Cruiser.

Primary Reactor Output: List the output of the primary power source in watts.

Range: Is the weapons effective range.

Rate of Fire: Lists the number of shots per minute that the weapon is able to fire.

Rear Profile: This profile is used for familiarization of the rear view of the vessel.

Refuel Rate: Is given in watts and shows how fast the shields will replenish themselves.

Replicators: Lists the vessel's ability to create materials and equipment.

Secondary Reactor Output: List the output of the secondary power source in watts.

Reactor Index Value: Is a general guide to the vessel's reactor abilities. The index norm is based on the Heavy Cruiser.

Shield Dimensions: Listed in meters for the normal spanning dimensions of the shields.

Shield Index: Is given as general guide to the vessel's overall shield power. The index norm is based on the Heavy Cruiser.

Shield Rating: Lists the specification of the shields.

Ship Name: Is an alphabetical listing along with their rated construction contract numbers for the vessels that have been authorized for construction.

Shuttlecraft Bay: Listed below are the general dimensions for each category of shuttlecraft bay.

Small Bay: Landing area dimensions of 20-800 sq.m with a normal deck height of 2.4-6 meters. Vehicle storage area dimensions of 20-800 sq.m with a normal deck height of 2.4 meters.

Medium Bay: Landing area dimensions of 800-2000 sq.m with a normal deck height of 6-10 meters. Vehicle storage area dimensions of 800-3000 sq.m with a normal deck height of 2.4 meters.

Large Bay: Landing area dimensions of 3000-10000 sq.m with a normal deck height of 6-10 meters. Vehicle storage area dimensions of 2000-10000 sq.m with a normal deck height of 2.4-3.2 meters.

Super Bay: Landing area dimensions of 10000+ sq.m with a normal deck height of 6-12 meters. Vehicle storage area dimensions of 10000+ sq.m with a normal deck height of 2.4-4.8 meters.

Shuttlecraft Specifications: Lists the number of docking ports, shuttlecraft bays, number and type of shuttlecrafts and lifeboats.

Sightlines: Is given for both recognition and to show the vessel's target area from various profiles. The smaller the area, the harder the ship is to target from that profile. The area values do not take into consideration the vessel's electronic counter measures.

Side Comparison: Gives port views for a comparison of the vessel's size in relation to other vessels.

Speed vs. Time: Is a graph that shows warp speed vs. time.

Sid. Ship Complement: Is the standard number of crew members for the vessel. The listing is broken up into Officers, Crew and Troops.

Stock: Is given if the weapon has a finite supply of shots.

Telemetry: Lists the number of communication channels available for transmission of data and the power output of those transmissions listed in watts.

Top Profile: This profile is used for familiarization of the top view of the vessel.

Total Target Area: Is created by adding the top, port and front areas to give a generalization of the vessel's overall target size.

Tractor Beam Specifications: Uses a tractor beam load calculator to calculate range vs. tonnage at each warp speed (See Tractor Beam on page SRM1 05:01:01:01 for information on how to use).

Tractor Beam: Is given for both the max. range and tow capacity.

Transports: Lists the total number and type of units.

Type: Is a general term used to categorize the crafts abilities.

Class 1: Is used for starships that are designed with flexibility in their operating parameters.

Class 2: Is used for support ships that are designed for a specific mission and don't have much flexibility in their design.

Class 3: Is used for space station and habitable space facilities. The general rule is that the complex has recreational facilities and permanent residences.

Class 4: Is used for space facilities such as dry docks and refineries, generally not used as habitable environments.

Class 5: Is used for shuttlecraft and small support vessels.

Class 6: Is used for automated craft and facilities with little or no habitable environment provided for in the design.

Class 7: Is used to designate non-powered, space-going vessels such as cargo containers.

Class 8: Is used to designate items such as torpedoes, probes and buoys.

Vessel Power Index: Is given as general guide to the craft's overall weapon power. The index norm is based on the Heavy Cruiser.

Warp Engine Output: Lists the internal chamber output in watts.

Warp Fields: Shows the field curvature around the vessel at optimum field configuration. The more slender the lateral field the less energy needed to propel the craft through space.

Warp Power Index: Is given as general guide to the craft's overall warp power. The index norm is based on the Heavy Cruiser.

Warp Speed/Power Graph: Is a two-sided graph used to show the power consumption based on the speed of the vessel.

Warp Unit: Lists the warp drive model number.

Weapon (Type) Total: Gives the number of barrels/bays and how many phases/tubes per barrel/bay. (A weapon location is given for the position of each weapon facing and can be used as a general guide of the weapon's angle of attack).



General Information

A large number of small support vehicles are required by Starfleet in order to carry out various missions such as construction, transportation and defense. Most shuttle craft are designed for almost continuous duty, especially cargo and personnel craft. These vehicles often provide support and maintenance when a star-vessel's main systems are off-line in space dock, transporters are unsuitable for a particular mission or a larger vessel is not needed for the job.

Size Comparison



Cargo Shuttle



Standard Shuttle (DockPort)



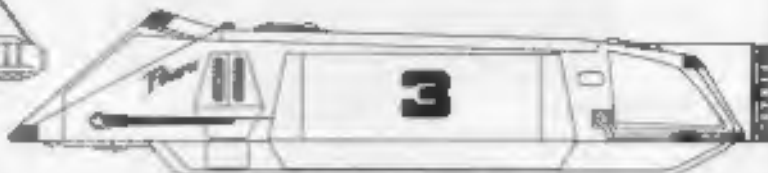
Passenger Shuttle



Light Shuttle (DockPort)



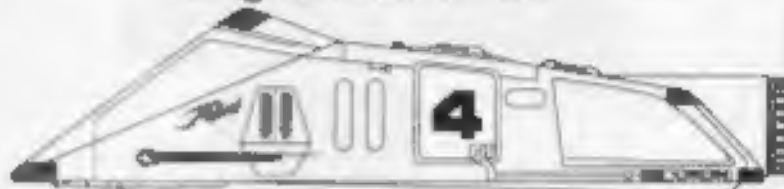
Heavy Assault Shuttle



Cargo Shuttle (DockPort)



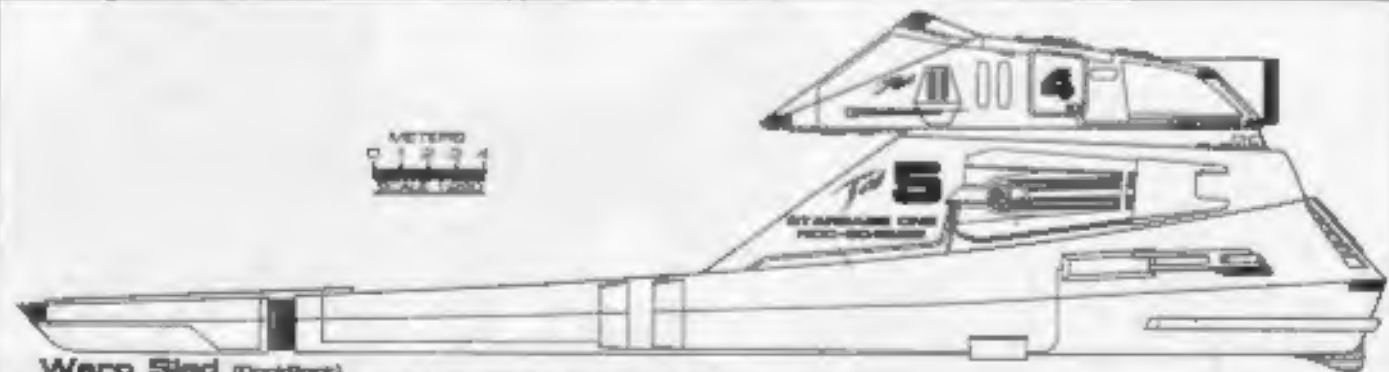
Heavy Fighter



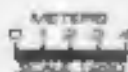
Long Range Shuttle (DockPort)



Shutug (Tug Shuttle)



Warp Sled (DockPort)



CARGO SHUTTLE



General Information

Specific Role: The Cargo Shuttle's primary mission is supply and bulk goods transport. All starbases have fleets of cargo shuttles and starships usually have one or two. Even the most sophisticated transporter system achieves an efficiency rating of 34%. Most shuttle engines however, have a 73% efficiency rating at normal output therefore, making it still cheaper to transport bulk goods by shuttle.

Physical Description: The Cargo Shuttle's boxy hull is equipped with two doors on either side of the cockpit. An exterior utility access panel, just aft of the port-side personnel hatch, provides power and refueling hookups while the shuttle is being loaded and unloaded. The crew sit beneath the large canopy in the nose of the craft. No Phasers are included in the standard configuration. Propulsion is provided by (SIS12-2/50) impulse drive engines slung underneath like little feet. Cowlings have been added to the engines to help cool the plasma coils during atmospheric use.

Class Silhouettes

Total Target Area 244.89 m²



Top Silhouette
Area 143.18 m²



Port Silhouette
Area 98.21 m²



Front Silhouette
Area 33.70 m²

Statistics

Classification: Cargo Shuttlecraft
Category: Shuttlecraft
Class: Gypsy
Type: Class 5
Model: MK-30XV
Naval Construction Contract: C8-105
Dimensions:
Overall Dimensions (Meters)
Length: 17.02m
Width: 9.52m
Height: 4.76m
Displacement (Metric Tons)
Light: 12.20mt
Standard: 13.56mt
Full Load: 15.50mt
Performance:
Impulse Units: (SIS12-2/50)
Impulse Engine Output: 2.0x10⁸ W
Max Cruising: C
Acceleration Rate:
0.00-0.25 Impulse: 0.244 sec.
0.25-0.50 Impulse: 0.316 sec.
0.50-0.75 Impulse: 0.369 sec.
0.75-Full Impulse: 0.460 sec.
Warp Units: 0
Warp Engine Output: N/A
Optimum Speed: N/A
Max. Sub-Cruising: N/A
Emergency Speed: N/A
Max. Speed: N/A
Destructive Speed: N/A
Acceleration Power: N/A
Acceleration Times:
Warp 1 - Warp 2: N/A
Warp 2 - Warp 3: N/A
Warp 3 - Warp 4: N/A
Warp 4 - Warp 5: N/A
Warp 5 - Warp 6: N/A
Warp 6 - Warp 7: N/A
Warp 7 - Warp 8: N/A
Warp 8 - Warp 9: N/A
Warp 9 - Warp 9.5: N/A
Warp 9.5 - Warp 9.75: N/A
Warp 9.75 - Warp 9.9: N/A
Duration (Years)
Standard: 5 Years
Maximum: 20 Years
Std. Ship Complement: 1
Crew: 1
Passengers: 16
Emergency condition: +10
Transmissions Total: 1
1 Person: 0
2 Person: 1
3 Person: 0
Small Cargo: 0
Medium Cargo: 0

Traitor Beams: 1
Tow Capacity: 7.82x10⁷mt
Max Range: 9.35x10¹⁰km
Cargo Specifications:
Standard Cargo Units: 4
Cargo Capacity: 10.55
Shuttlecraft Specifications:
Docking Ports: 0
Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 1.000
Stellar Survey: 0.999
Short Range: 1.103
Long Range: 0.995
Navigation: 0.997
Special: 0.899
Comesars: 2
Type: Normy-Magne 21:
Type: Normy-Magne 14:
Shield Rating:
Shield Power: 4.58x10⁸ W
Rebreath Rate: 1.98x10⁸ W
Breakdown Rate: 1.99x10⁸ W
Shield Dimensions (Meters)
Length: 19.17m
Width: 12.45m
Height: 5.75m
Weapons:
Weapon Placement:
Beams (Phasers) Total: 0
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward Banks: 0
Rear Banks: 0
Port Banks: 0
Starboard Banks: 0
Upper Banks: 0
Lower Banks: 0
Beams (HeavyPhasers) Total: 0
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Missiles (Photon) Total: N/A
Stock: N/A
Range: N/A
Output: N/A
Rate of Fire: N/A
Forward Bay: 0
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

Craft Emblem

Gypsy Class
CARGO SHUTTLE





CARGO SHUTTLE

GYPSY CLASS

FEDERATION CRAFT

Main Gangway Hatch

EARTH SPACEDOCK

Impulse Engines (2)

PORT PROFILE

ViewPort

Sensor Array

Rear Cargo Hatch

TOP PROFILE

METERS
0 0.5 1 1.5 2
SCALE 1:95

Impulse Engines (2)

Rear Cargo Hatch

Forward Sensor Array

BOTTOM PROFILE

Forward Sensor Array

ViewPort

Rear Cargo Hatch

FRONT PROFILE

REAR PROFILE

HEAVY ASSAULT SHUTTLE



General Information

Specific Role: The Heavy Assault Shuttle is used for precision assault and with its thick armor can deliver troops under brutal fire. It is designed to be crewed by a pilot and gunner/navigator, but can operated by the pilot alone should the gunner/navigator become incapacitated or be unavailable at launch. For the purposes of planetary assault the Heavy Assault Shuttle is capable of .92 C in most atmospheres and can achieve warp at sub-orbital altitudes. The shock waves from such maneuvers can be as destructive as orbital bombardment.

Physical Description: The Heavy Assault Shuttles reinforced hull subtly resembles the head of an Earth snake called the Cobra. The crew, seated in the cockpit, is covered by an armored-limited view canopy with a 100 degree field of view for defensive purposes. A (SMDN12/2-6) navigational sensor assembly is located under the front portion of the craft. The shuttle is equipped with rapid cycle (BP2/12-10F) phasers mounted on either side of the hull just below the canopy reinforcement buttress. Located underneath the cockpit are (PB2/12-12A) photon missile launchers which are extruded down sufficiently to clear the forward sensor pod. Sub-light propulsion is provided by the impulse units located on the rear section of the craft on each side of the gangway hatch. Warp power is provided by (SX12/1-5BX) micro-nacelles mounted on each side of the hull.

Class Emblem



Statistics

Classification: Heavy Assault Shuttle

Category: Shuttlecraft

Class: Ogre

Type: Class 5

Model: MC-30V

Naval Construction Contract: AS-42

Dimensions:

Overall Dimensions (Meters)

Length: 15.52m

Width: 5.40m

Height: 3.10m

Displacement (Metric Tons)

Light: 7.26mt

Standard: 7.53mt

Full Load: 8.42mt

Performance:

Impulse Units: Dual Unit (ND35EH-UP)

Impulse Engine Output: 8.5×10^8 W

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.125 sec.

0.25-0.50 Impulse: 0.187 sec.

0.50-0.75 Impulse: 0.250 sec.

0.75-Full Impulse: 0.312 sec.

Warp Units: 2 Nacelle Units (SX12/1-5BX)

Warp Engine Output: 2.8×10^7 W

Optimum Speed: Warp 2

Max. Safe Cruising: Warp 3

Emergency Speed: Warp 4

Max. Speed: Warp 4.4

Destructive Speed: Warp 4.8

Acceleration Power: 3.0

Acceleration Times:

Warp 1 - Warp 2: 2.215 sec.

Warp 2 - Warp 3: 2.697 sec.

Warp 3 - Warp 4: 5.124 sec.

Warp 4 - Warp 5: N/A

Warp 5 - Warp 6: N/A

Warp 6 - Warp 7: N/A

Warp 7 - Warp 8: N/A

Warp 8 - Warp 9: N/A

Warp 9 - Warp 9.5: N/A

Warp 9.5 - Warp 9.75: N/A

Warp 9.75 - Warp 9.9: N/A

Insulation (Years)

Standard: 5 Years

Maximum: 20 Years

Std. Ship Complement: 1

Crew: 2

Passenger: 10

Emergency condition: +10

Compartments Total: 1

1 Person: 0

2 Person: 1

6 Person: 0

Small Cargo: 0

Medium Cargo: 0

Tractor Beams: 1

Tow Capacity: 8.20×10^4 mt

Max Range: 7.54×10^4 km

Cargo Specifications:

Standard Cargo Units: N/A

Cargo Capacity: N/A

Shuttlecraft Specifications:

Decking Parts: 0

Cockling Devices: 0

Sensor Index Values:

Maneuver Survey: 1.484

Stellar Survey: 0.942

Short Range: 1.268

Long Range: 1.110

Navigation: 0.988

Special: 1.155

Commuters: 2

Type: Nonny-Magno 20-u

Type: Nonny-Magno 17-g

Shield Rating:

Holdoff Power: 5.26×10^8 W

Refresh Rate: 1.83×10^8 W

Breakdown Rate: 1.89×10^8 W

Shield Dimensions (Meters)

Length: 18.89m

Width: 7.825m

Height: 5.03m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 8 Mounts

Output: 5.0×10^8 W / 2.5×10^8 W

Range: 2.5×10^3 km

Rate of Fire: 20 ppm / Cont.

Forward Banks: 0

Rear Banks: 0

Port Banks: 3

Starboard Banks: 3

Upper Banks: 0

Lower Banks: 0

Beam (Heavy Photon) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Missiles (Photon) Total: 4 Tubes

Stock: 30

Range: 2.0×10^3 km

Output: 5-11 Megatons

Rate of Fire: 10 ppm

Forward Bay: 4

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Craft Silhouettes

Total Target Area 116.11 m^2



Top Silhouette

Area 71.81 m^2



Port Silhouette

Area 25.48 m^2



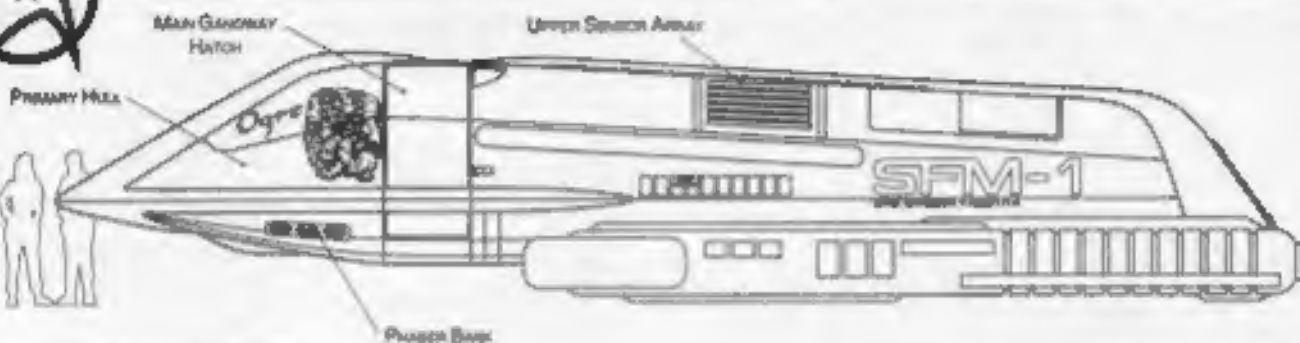
Front Silhouette

Area 11.16 m^2

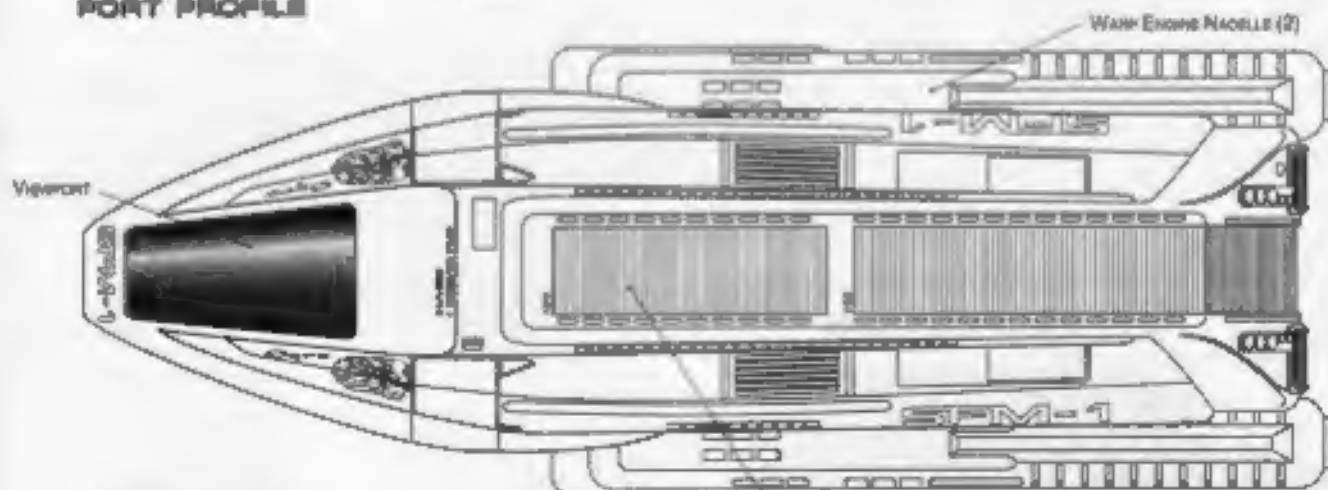


HEAVY ASSAULT SHUTTLE

OGRE CLASS

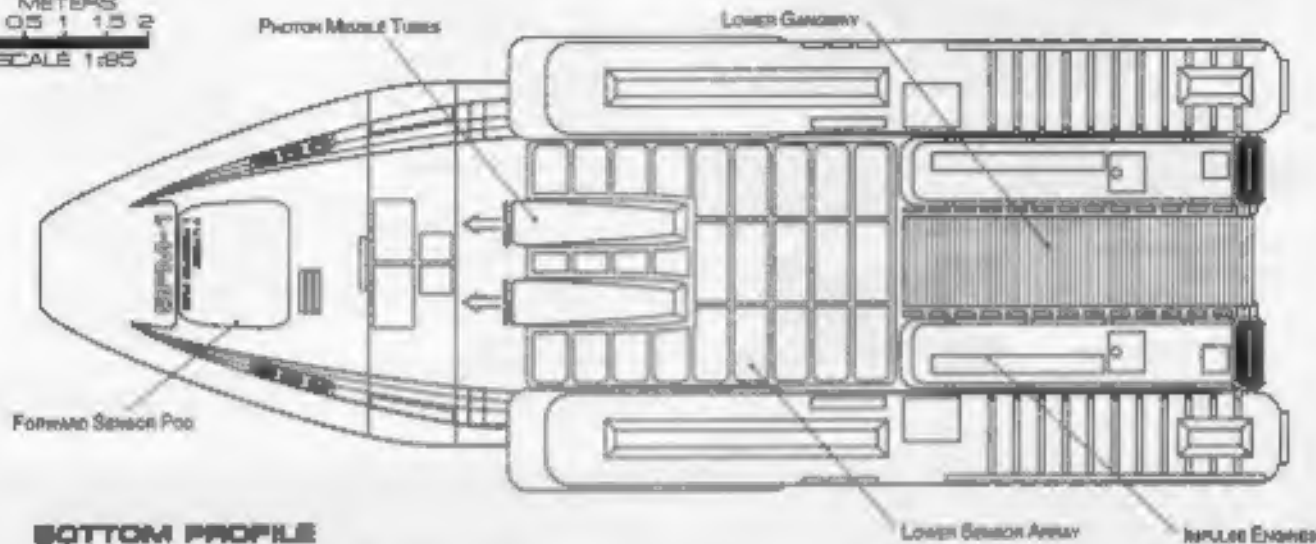


PORT PROFILE

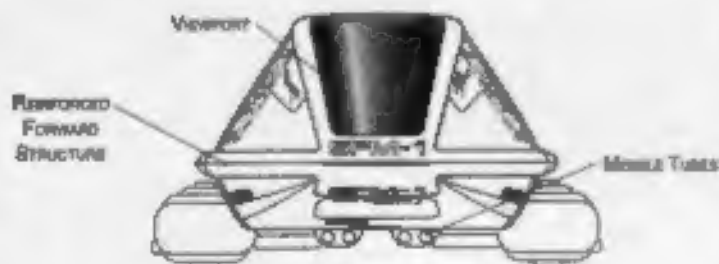


TOP PROFILE

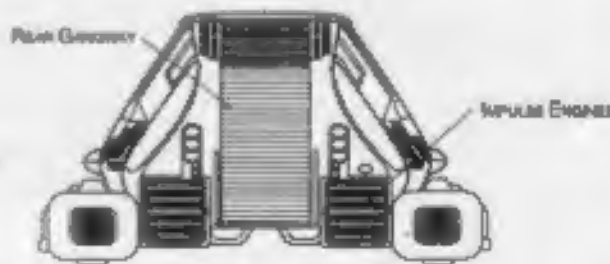
METERS
0 0.5 1 1.5 2
SCALE 1:85



BOTTOM PROFILE



FRONT PROFILE



REAR PROFILE

FEDERATION CRAFT

HEAVY FIGHTER



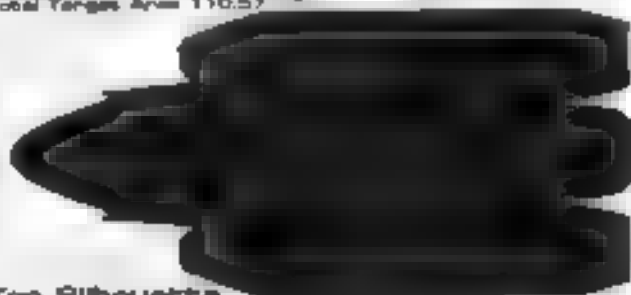
General Information

Specific Role: The Heavy Fighter is used for perimeter defense, landing craft support and direct capital ship engagement. It is crewed by a pilot, navigator and weapons officer. In emergencies the fighter may be operated less effectively by just the pilot. For the purposes of planetary assault the Heavy Fighter is a lander. It can move through atmospheres and can survive warp without vital accidents. The shock waves from nuclear mine vents can be as destructive as orbital bombardment.

Physical Description: The Heavy Fighter's distinctive low silhouette and lack of offensive weaponry is easily identified. The crew section of the cockpit is a storage compartment with pilot up front, navigator in a large canopy with a 360 degree field of view for excellent stability. A (SM)DN22 5" diameter sensor assembly is mounted on the underside of the craft. The fighter is equipped with rapid response P2 24 4" heavy phasers mounted on either side of the hull just below the canopy and 4 1" light in either side of the fuselage armament 24 NA phaser missile launchers which are independently powered so that a backup power could be initiated if the phasers during battle. Sublight propulsion is provided by the impulse unit located at the rear of the craft. Warp power is provided by two SW20 2.4AF micro nacelles mounted on each side of the hull.

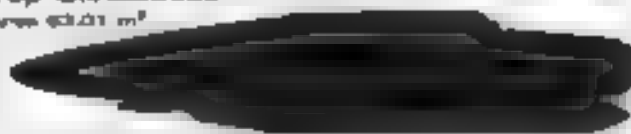
Craft Silhouettes

Total Target Area: 110.57 m²



Top Silhouette

Area: 53.01 m²



Port Silhouette

Area: 59.36 m²



Front Silhouette

Area: 10.80 m²

Statistics

Classification: Heavy Fighter

Category: Fighter

Class: Yellow Jacket

Type: Area 5

Model: HM-VN

Rated Construction Control: B/JT

Dimensions:

Overall Dimensions (Meters):

Length: 1.0m

Width: 6.0m

Height: 1.0m

Displacement (Metric Tons):

Light: 1.0m

Standard: 1.0m

Full Load: 1.0m

Performance:

Impulse Data: Dual Pack (P224 4 GB)

Impulse Engine Output: 1.0x10¹⁰ W

Max. Cruising:

Acceleration Rate:

0.00-0.25 Impulse 0.10 sec

0.25-0.50 Impulse 0.55 sec

0.50-0.75 Impulse 0.700 sec

0.75 Full Impulse 2.5 sec

Warp Coils: 2 Nuclei (SW202-4AF)

Warp Engine Output: 4.8x10¹² W

Optimum Speed: Warp 6

Max. Safe Cruising: Warp 7

Emergency Speed: Warp 8

Max. Speed: Warp 8.5

Destructive Speed: Warp 9.5

Acceleration Time:

Warp 1: Warp 2: 0.40 sec

Warp 2: Warp 3: 0.22 sec

Warp 3: Warp 4: 0.84 sec

Warp 4: Warp 5: 1.50 sec

Warp 5: Warp 6: 1.220 sec

Warp 6: Warp 7: 1.325 sec

Warp 7: Warp 8: 6.05 sec

Warp 8: Warp 9: 2.410 sec

Warp 9: Warp 9.5: 5.357 sec

Warp 9.5: Warp 10: N/A

Warp 10: Warp 10.5: N/A

Warp 10.5: Warp 11: N/A

Warp 11: Warp 11.5: N/A

Warp 11.5: Warp 12: N/A

Warp 12: Warp 12.5: N/A

Warp 12.5: Warp 13: N/A

Warp 13: Warp 13.5: N/A

Warp 13.5: Warp 14: N/A

Warp 14: Warp 14.5: N/A

Warp 14.5: Warp 15: N/A

Warp 15: Warp 15.5: N/A

Warp 15.5: Warp 16: N/A

Warp 16: Warp 16.5: N/A

Warp 16.5: Warp 17: N/A

Warp 17: Warp 17.5: N/A

Warp 17.5: Warp 18: N/A

Warp 18: Warp 18.5: N/A

Warp 18.5: Warp 19: N/A

Warp 19: Warp 19.5: N/A

Warp 19.5: Warp 20: N/A

Warp 20: Warp 20.5: N/A

Warp 20.5: Warp 21: N/A

Warp 21: Warp 21.5: N/A

Warp 21.5: Warp 22: N/A

Warp 22: Warp 22.5: N/A

Warp 22.5: Warp 23: N/A

Warp 23: Warp 23.5: N/A

Warp 23.5: Warp 24: N/A

Warp 24: Warp 24.5: N/A

Warp 24.5: Warp 25: N/A

Warp 25: Warp 25.5: N/A

Warp 25.5: Warp 26: N/A

Warp 26: Warp 26.5: N/A

Warp 26.5: Warp 27: N/A

Warp 27: Warp 27.5: N/A

Warp 27.5: Warp 28: N/A

Warp 28: Warp 28.5: N/A

Warp 28.5: Warp 29: N/A

Warp 29: Warp 29.5: N/A

Warp 29.5: Warp 30: N/A

Warp 30: Warp 30.5: N/A

Warp 30.5: Warp 31: N/A

Warp 31: Warp 31.5: N/A

Warp 31.5: Warp 32: N/A

Warp 32: Warp 32.5: N/A

Tractor Beams:

Yaw Capacity: 320x10¹⁰ m

Max. Range: 3.35x10¹⁰ m

Cargo Specifications:

Standard Cargo Units: N/A

Cargo Capacity: N/A

Shuttlecraft Specifications:

Sorting Ports: 0

Clothing Devices: 0

Repair Index Values:

Planetary Survey: 776

Stellar Survey: 6.08

Short Range: 45

Long Range: 160

Navigation: 1.000

Special: P57

Comments:

Type: Heavy-Magne 24 g

Type: Heavy-Magne 10 h

Shield Rating:

Modell Power: 5.24x10¹⁰ W

Refresh Rate: 78x10¹⁰ W

Breakdown Rate: 12x10¹⁰ W

Shield Dimensions (Meters):

Length: 4.40m

Width: 6.6 m

Height: 2.82m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 2 Mounts

Output: 5.0x10¹⁰ W 2.5x10¹⁰ W

Range: 2.5x10¹⁰ km

Rate of Fire: 45 ppm Cont.

Forward Banks: 2

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (Heavy Phasers) Total: 5

Output: 7.5x10¹⁰ W 3.75x10¹⁰ W

Range: 4.0x10¹⁰ km

Rate of Fire: 30 ppm Cont.

Forward/Rear Banks: 6

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Beam (Photon) Total: 5 Tubes

Beam: 1.0

Range: 2.0x10¹⁰ km

Output: 5.1x10¹⁰ W

Rate of Fire: 10 ppm

Forward Bay: 6

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Beam (Photon) Total: 5 Tubes

Beam: 1.0

Range: 2.0x10¹⁰ km

Output: 5.1x10¹⁰ W

Rate of Fire: 10 ppm

Forward Bay: 6

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Beam (Photon) Total: 5 Tubes

Beam: 1.0

Range: 2.0x10¹⁰ km

Output: 5.1x10¹⁰ W

Rate of Fire: 10 ppm

Forward Bay: 6

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Beam (Photon) Total: 5 Tubes

Beam: 1.0

Range: 2.0x10¹⁰ km

Output: 5.1x10¹⁰ W

Rate of Fire: 10 ppm

Forward Bay: 6

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

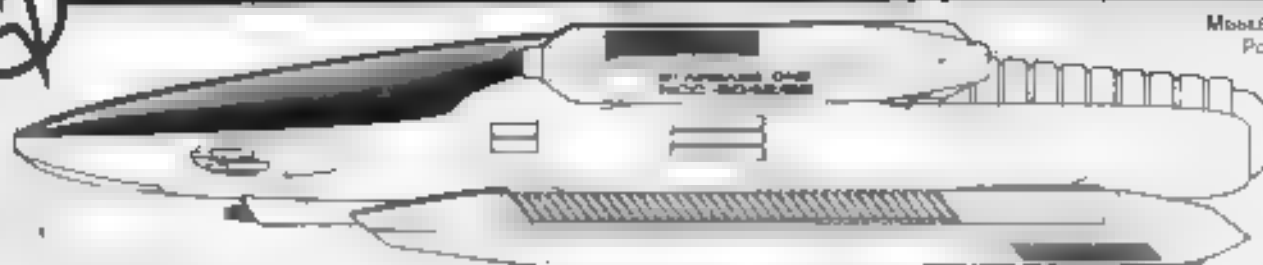
Class Emblem





HEAVY FIGHTER

MOBILE TUBE
POD

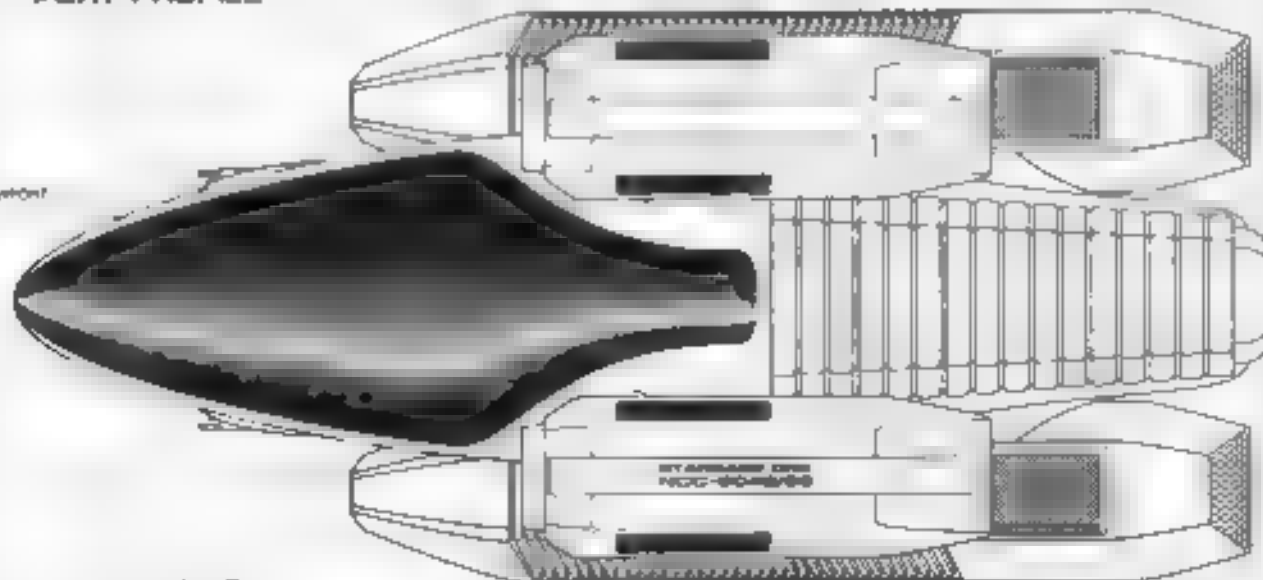


PORT PROFILE

PHASER BANK (2)

WARM FRONT HEATSHIELD (2)

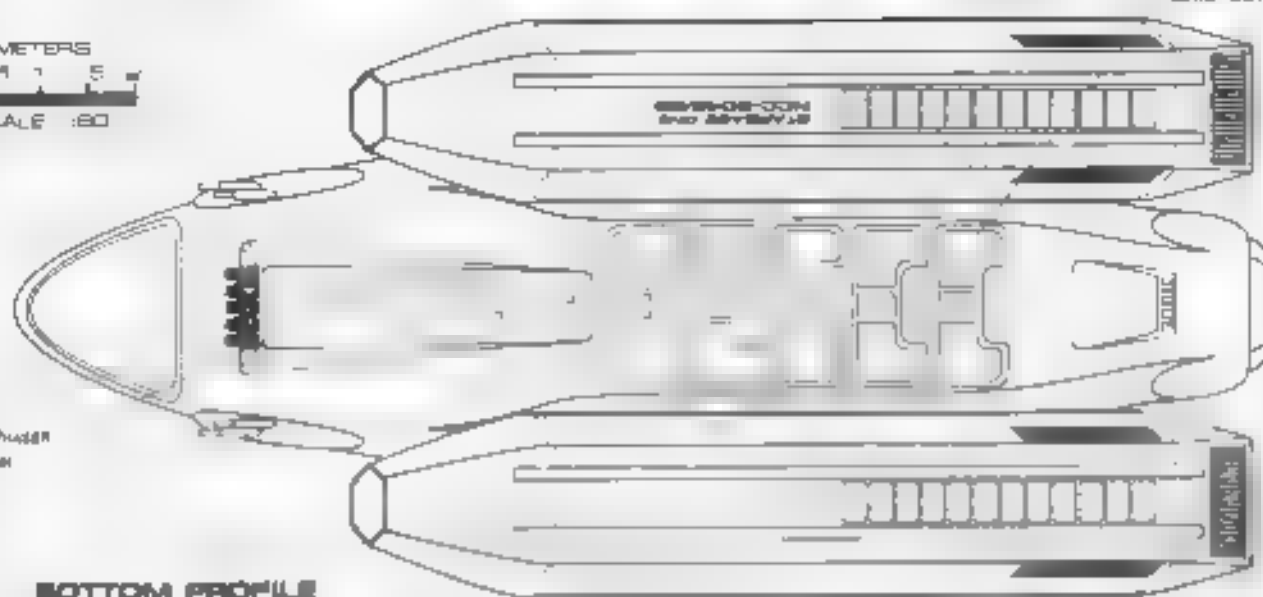
VISOR



TOP PROFILE

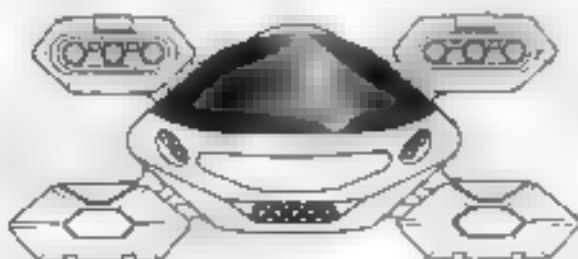
LOWER SENSOR ARRAY

METERS
0 0.5 1 5
SCALE :80



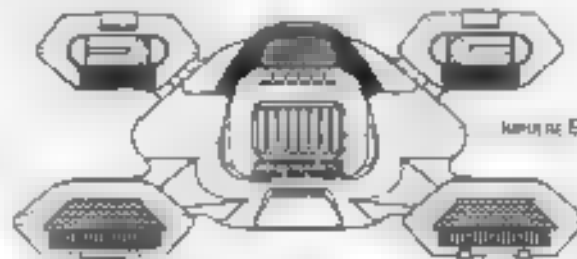
HEAVY PHASER
BANK

BOTTOM PROFILE



FRONT PROFILE

MOVIE
TUBE



WARM FRONT
HEATSHIELD

REAR PROFILE

SRM3 02:02:03:02

STARFLEET REFERENCE MANUAL

STARFLEET REFERENCE MANUAL

STARFLEET REFERENCE MANUAL

SHUTUG



General Information

Specific Role The Shutug is small and powerful tractor beam tow vehicle. It is primarily used around space-docks and planetary facilities. Since this craft was designed strictly for support duty it does not need warp engines. However, two Shutugs have enough impulse power to safely move a Heavy Cruiser.

Physical Description The Shutugs boxy hull is equipped with two doors on either side of the cockpit. The pilot and tractor beam technician sit beneath the large canopy in the nose of the craft. Positioned on the front and on the top of the shuttle are (SNPA12/2.7) navigational sensor arrays. No Phasers are included in the standard configuration. Propulsion is provided by (SIS10-2/100) impulse drive engines slung underneath like little feet. Cowlings have been added to the engines to help cool the plasma coils during atmospheric use.

Class Silhouettes

Total Target Area: 187.20 m²



Top Silhouette

Area: 59.80 m²



Port Silhouette

Area: 48.81 m²



Front Silhouette

Area: 69.41 m²

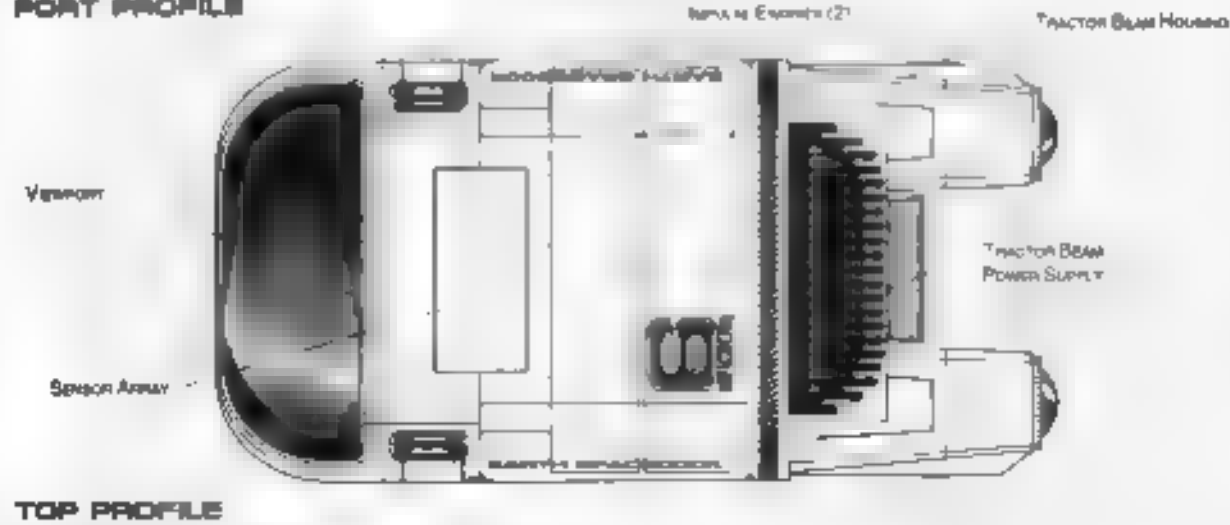
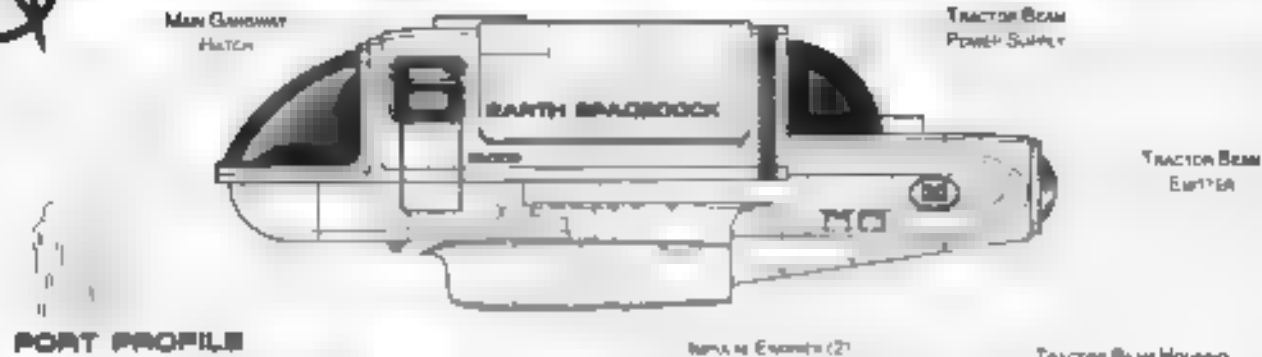
Statistics

Classification: Sh. ug (Shuttle Tug)
Category: Tractorcraft
Class: Tractorcraft
TYPE: -sh
Model: SH. 23IV
Battle Configuration: Control, CS-04
Dimensions:
 Overall Dimensions (Meters)
 Length: 5.1m
 Width: 1.05m
 Height: 4.85m
Displacement (Metric Tons)
 Light: 5.25m
 Standard: 0.50m
 Full Load: 2.50m
Performance:
 Impulse Drive: 788 0.2/100
 Impulse Engine Output: 6.7x10⁶ W
 Max Cruising: C
 Acceleration Rate:
 0.00-0.15 Impulse: 0.344 sec
 0.15-0.30 Impulse: 0.416 sec
 0.30-0.75 Impulse: 0.508 sec
 0.75-Full Impulse: 0.530 sec
 Warp Gains: 0
 Warp Engine Output: N/A
 Optimum Speed: N/A
 Max. Safe Cruising: N/A
 Emergency Speed: N/A
 Max. Speed: N/A
 Destructive Speed: N/A
 Acceleration Power: N/A
 Acceleration Time:
 Warp 1 Warp 2: N/A
 Warp 2 Warp 3: N/A
 Warp 3 Warp 4: N/A
 Warp 4 Warp 5: N/A
 Warp 5 Warp 6: N/A
 Warp 6 Warp 7: N/A
 Warp 7 Warp 8: N/A
 Warp 8 Warp 9: N/A
 Warp 9 Warp 9.5: N/A
 Warp 9.5 Warp 9.75: N/A
 Warp 9.75 Warp 9.9: N/A
Duration (Years)
 Standard: 4 yrs
 Maximum: 20 Yrs
Std. Ship Complement: 7
Crew:
 Passengers: 1
 Emergency condition: -4
Endurance Total: 0
 1 Person: 0
 2 Person: 0
 4 Person: 0
 Small Cargo: 0
 Medium Cargo: 0

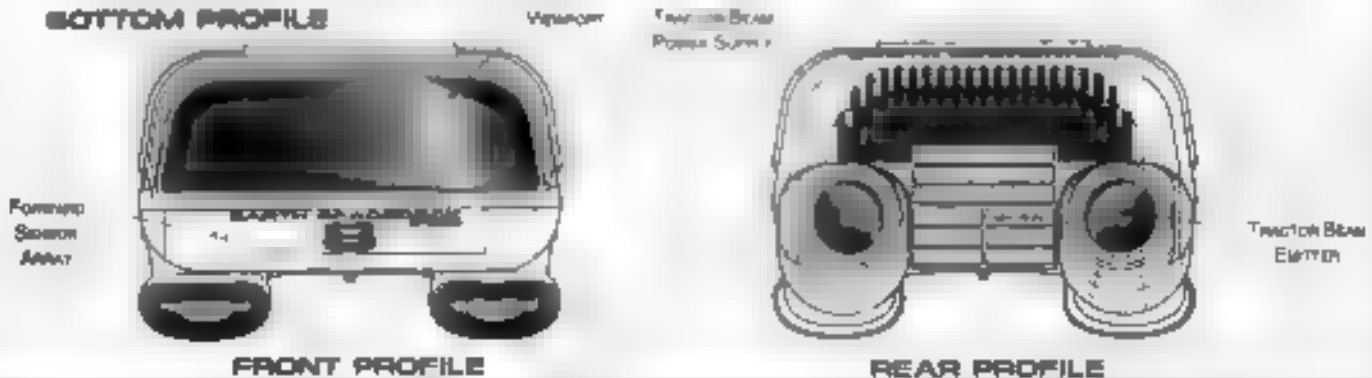
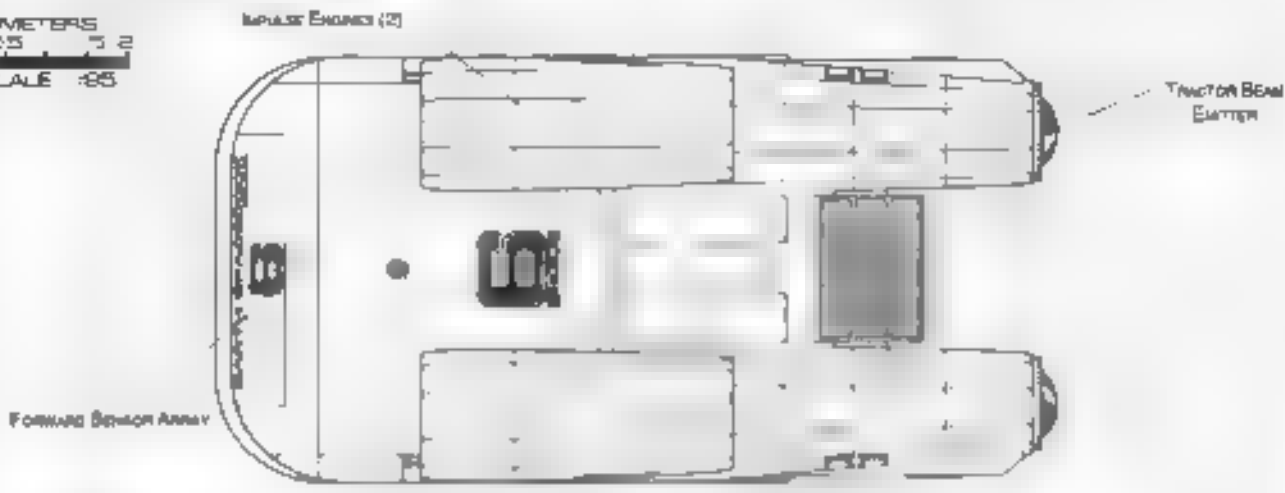
Tractor Beams: 2
 Tow Capacity: 1.82x10⁶ m
 Max Range: 9.35x10⁴ m
Cargo Specifications:
 Standard Cargo Dials: 4
 Cargo Capacity: 0.08
MultiCraft Specifications:
 Docking Ports: 0
 Cleaning Devices: 0
Sensor Index Values:
 Planetary Survey: 1.002
 Stellar Survey: 0.986
 Short Range: 103
 Long Range: 0.968
 Navigation: 1.097
 Special: 0.986
Computers: 4
 Type: Nixray-Magne 20 d
 Type: Nixray-Magne 12 h
Shield Rating:
 Modest Power: 4.82x10⁶ W
 Safe Rate: 82x10⁶ W
 Breakdown Rate: 1.72x10⁶ W
 Shield Dimensions (Meters)
 Length: 5.42m
 Width: 12.45m
 Height: 5.85m
Weapons:
 Weapon Placement:
 Beam (Phasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward Banks: 0
 Rear Banks: 0
 Port Banks: 0
 Starboard Banks: 0
 Upper Banks: 0
 Lower Banks: 0
 Beam (HeavyPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
 Missiles (Photon) Total: N/A
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
 Forward Bay: 0
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

Craft Emblem





METERS
0 0.5 1 2
SCALE :85



PASSENGER SHUTTLECRAFT



General Information

Specific Role: The Passenger Shuttlecraft was designed to be cathetically pleasing to most passengers while providing an extremely wide field of view and comfortable safety margin. To help passengers egress, an integral stair-way extends from the warp-nacelle whenever the hatch is open. Although this craft has a phaser bank, it is not designed for combat.

Physical Description: The pilot and optional co-pilot sit side by side underneath the large rakish canopy in the nose of the flat, slender shuttle craft. The passengers' seats can recline underneath a very large view port covering the rear hull section. It has two main gangways located between the cockpit and the passenger compartment. Located in the bow of the shuttle is a [5M/DN4/1 7] navigational sensor array. Sub light propulsion is provided by the impulse drive system located on the rear of the craft. Warp power is provided by two [SW18/1 4IS] micro nacelles which are mounted on each side of the hull.

Class Emblem



Statistics

Classification: Passenger Shuttle

Cockpit: Single-seat

Class: As above

Type: As 5

Model: UN-KX

Star Construction Company: P5-D1

Dimensions:

Overall Dimensions (Stationary)

Length: 3.19m

Width: 2.0m

Height: 3.7m

Displacement (Stationary)

Light: 2 mt

Standard: 14.5mt

Full Load: 8.21mt

Performance:

Impulse Units: Dual Unit 1P728-3-CC

Impulse Engine Output: 2x 0th W

Max Cruising: 1

Acceleration Rate:

0.00-0.25 impulse 0.140 sec

0.25-0.50 impulse 0.210 sec

0.50-0.75 impulse 0.280 sec

0.75-1.00 impulse 0.350 sec

Warp Units: 2 Micro Units (SW18/1-4IS)

Warp Engine Output: 2x 0th W

Optimum Speed: Warp 3

Max Safe Cruising: Warp 4

Emergency Speed: Warp 4.2

Max Speed: Warp 4.5

Destructive Speed: Warp 4.9

Acceleration Power: 3.0

Acceleration Times:

Warp 1: Warp 2: 2.879 sec

Warp 2: Warp 3: 3.436 sec

Warp 3: Warp 4: 6.208 sec

Warp 4: Warp 5: 03' sec

Warp 5: Warp 6: N/A

Warp 6: Warp 7: N/A

Warp 7: Warp 8: N/A

Warp 8: Warp 9: N/A

Warp 9: Warp 10: N/A

Armament (Known):

Standard: None

Maximum: 20' guns

Std. Arm Complement:

Crew: 1

Passengers: 35

Emergency condition: +18

Threats/Totals: 1

1 Person: 0

2 Person: 1

4 Person: 0

Small Cargo: 0

Medium Cargo: 0

Interior Features:

Yew Capacity: 7.82x10³mt

Max Range: 9.35x10³mt

Cargo Specifications:

Standard Cargo Unit: N/A

Cargo Capacity: N/A

Shuttlecraft Specifications:

Docking Ports: 0

Cloaking Devices: 0

Special Index Values:

Planetary Survey: 1001

Stellar Survey: 0.0102

Short Range: 0.03

Long Range: 1.028

Navigation: 0.030

Special: 1 1

Comments: 2

Type: Nonny-Magm 17 m

Type: Nonny-Magm 120

Shield Rating:

Shielded Power: 6.72x10³ W

Shield Rate: 2 5x 0th W

Breakdown Rate: 1.89x10³ W

Shield Dimensions (Stationary)

Length: 20.01m

Width: 8.58m

Height: 3.43m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 1 Mount, 1

Output: 5.0x10³ W 2.5x10³ W

Range: 2.5x 0th km

Rate of Fire: 20 ppm Cont

Forward Banks: 0

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (Heavy Phasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Starboard Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks:

Missiles (Phasers) Total: N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Craft Silhouettes

Total Target Area: 188.16 m²



Top Silhouette

Area: 118.84 m²



Port Silhouette

Area: 48.81 m²



Front Silhouette

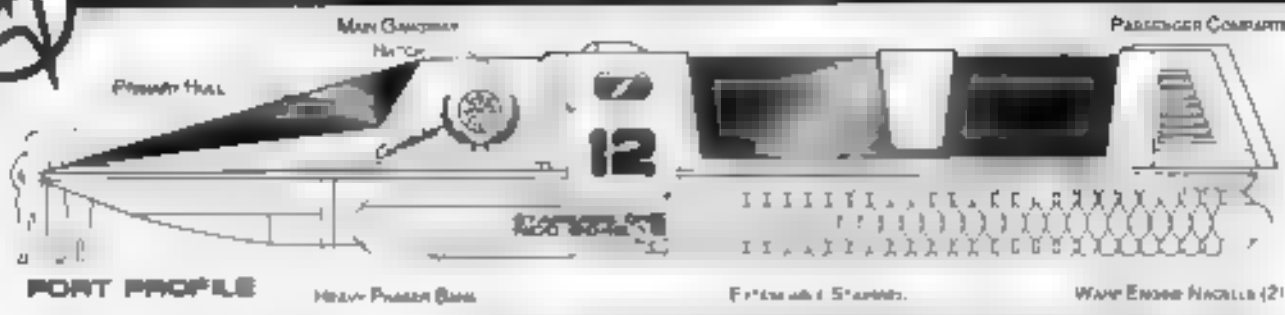
Area: 17.80 m²



PASSENGER SHUTTLECRAFT

CARETAKER CLASS

FEDERATION DRAFT

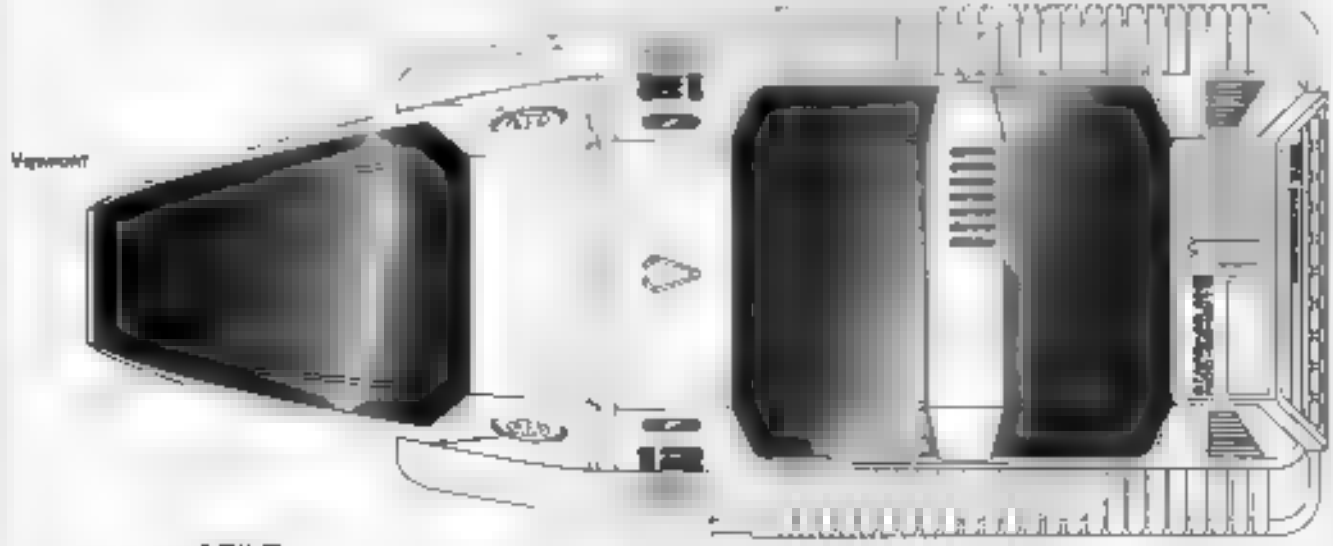


PORT PROFILE

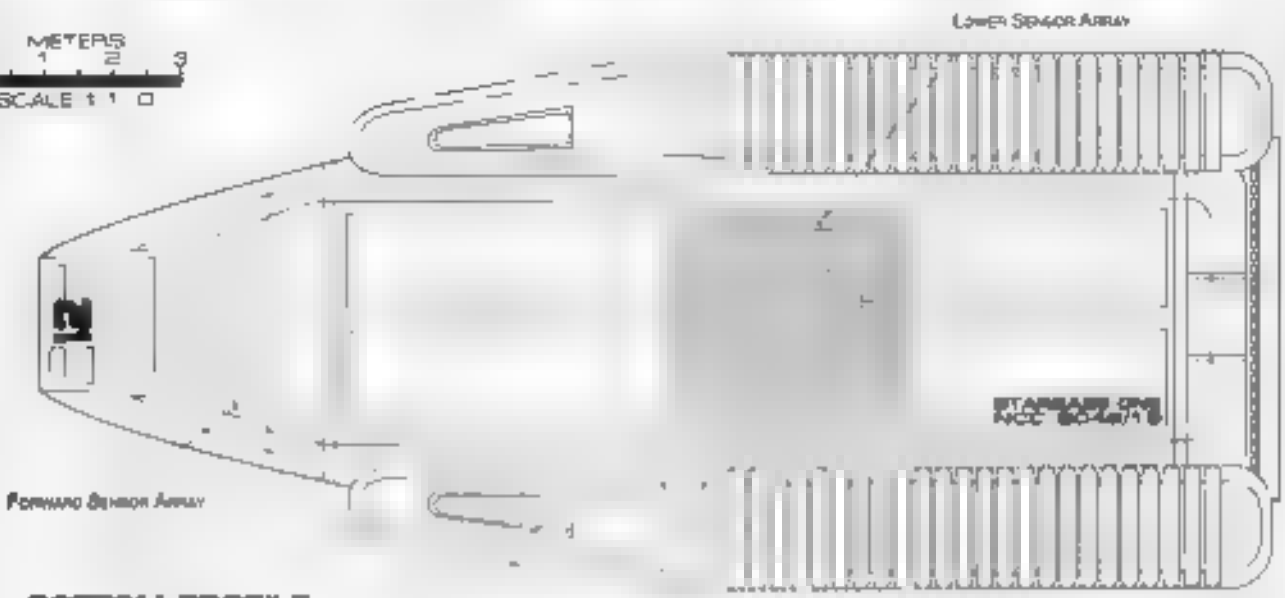
Heavy Phaser Bank

Forward Hull 5' x 10' x 10'

Warp Engine Nozzles (2)



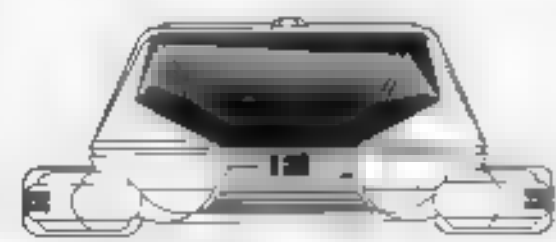
TOP PROFILE



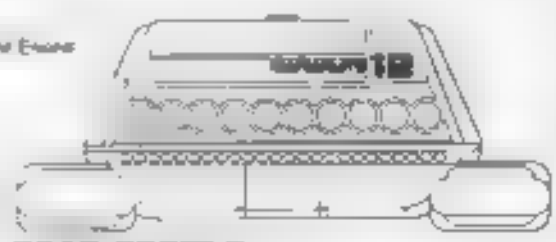
BOTTOM PROFILE

Landing Pad

Warp Engine



FRONT PROFILE



REAR PROFILE

DOCKPORT CRAFT



General Information

General Description: The Dockport craft originally designed by the Tapa Design Institute of Vulcan, was adopted for use throughout the Federation. These craft are used by Federation officials andassadors and stationed permanently for transportation within the Federation's borders. They are designed and built around the accepted Federation standard docking bay. These vehicles can cruise for several star warp months at a moderate resupply during rendezvous. All Tapa Dockport craft are designed to use the same warp sled and most a vol air attachment systems.

Light Shuttle: The Chian's class light shuttle is generally used for transporting no more than six passengers at a time. Forward is the wedge shaped atmospheric shield protecting the nose of the craft. Access is through the port side air lock hatch. Near docking bay and lower air lock hatch is the sensor array. The sensor array is located on the underside of the craft. Protection is provided by two HPL-16 phasers and a shield wall. The sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3-5Q) impulse unit (Pikara, Vulcan for light).

Cargo: The Fukar class cargo shuttle is used for transporting cargo, used by a pilot and can carry optional passengers. Forward is the wedge shaped atmospheric shield protecting the nose of the craft. Access is through the port side air lock hatch. Near docking bay and lower air lock hatch is the sensor array. The sensor array is located on the underside. Protection is provided by two HPL-16 phasers and a shield wall. The sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3-5Q) impulse unit (Pikara, Vulcan for light).

Standard: The Marana class Standard Shuttle is the original Vulcan shuttle design. Two crew and eight passengers are aboard in compartments. Forward is the wedge shaped atmospheric shield protecting the nose of the craft. Access is through the port side air lock hatch. Near docking bay and lower air lock hatch is the sensor array. The sensor array is located on the underside of the craft. Protection is provided by two HPL-16 phasers and a shield wall. The sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3-5Q) impulse unit (Marana, Vulcan for light).

Heavy Shuttle: The Aras class Heavy Shuttle has a standard crew of one and up to fifteen passengers. Forward is the wedge shaped atmospheric shield protecting the nose of the craft. Access is through the port side air lock hatch. Near docking bay and lower air lock hatch is the sensor array. The sensor array is located on the underside. Protection is provided by two HPL-16 phasers and a shield wall. The sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3-5Q) impulse unit (Aras, Vulcan for light).

Warp Sled: The Tapa class Warp Sled adds extended warp capability to the Tapa Dockport craft. The sled can cruise at warp 4 with a maximum speed of warp 4.7. The sled is designed to attach to the shuttle attachment point with two T2-AP-4 (HPL-16) impulse/micro-warp nacelles along each side. The sled is equipped with a (SME-22-2EF) sensor array (Tapa, Vulcan for light).

Aquatic Encasement: This device seals the sensitive components underneath the Tapa Dockport craft and provides buoyancy and propulsion at depths of 100 meters or less.

Communication Module: Provides high gain reception and high power transmission for deep space communications.

Fuel Module: Adds fuel storage to extend power reserves and range of Dockport craft.

Impulse Module: Provides additional impulse power to Dockport craft.

Manipulation Module: Adds manipulator arms to the front of Dockport craft.

Micro Warp Nacelles: Adds light warp capabilities to the Tapa Dockport craft.

Phaser Module: Adds medium phaser capability for basic defense and cutting.

Photon Torpedo Module: Adds photon missile capability to the shuttle.

Research Module: Adds research gathering and wide band diagnostic tools.

Sensor Array Module: Adds focused specific hand probing capability.

Survey Module: Used by small science teams for stellar body surveys.

Traction Beam Module: Adds tractor beam towing and manipulation capability to the shuttle.

Tow Hitch Module: Adds physical towing system to unusual objects.

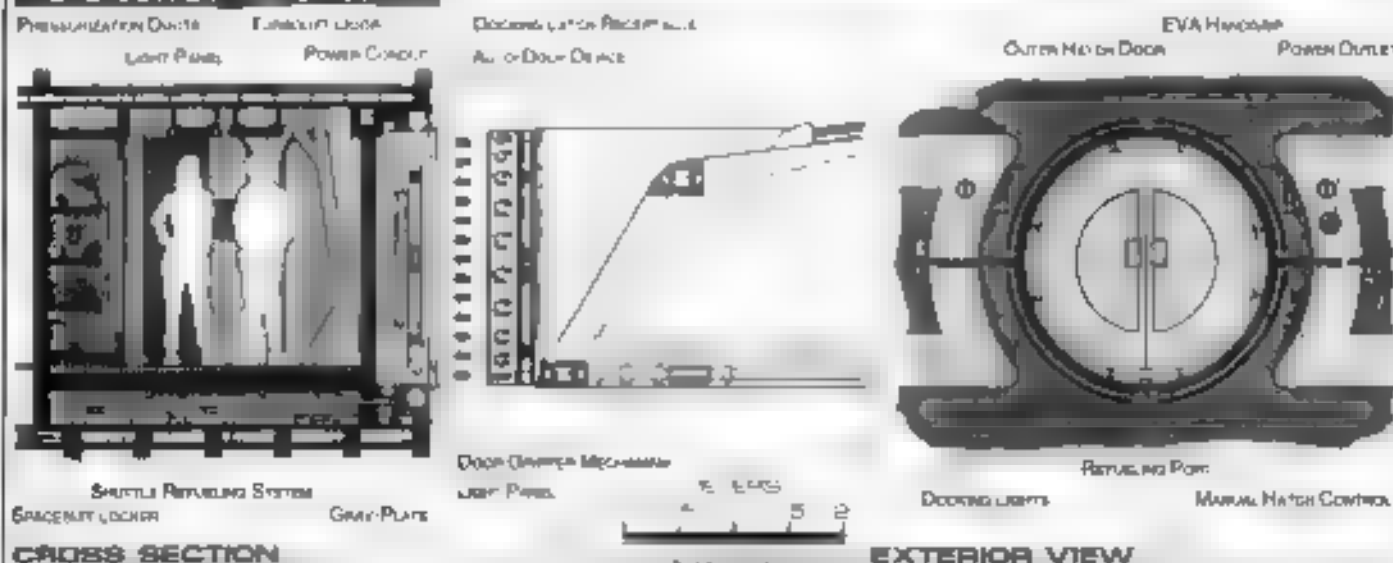
Medical Pod: Provides medical facilities for Dockport craft comprised of 2 doctors, 14 emergency bunks and light surgical facilities.

Passenger Pod: Adds independently powered accommodations for 20 passengers.

Cargo Pod: Doubles the volume of cargo space to any Dockport craft.

Light Cargo Pod: Adds a light cargo pod to any Dockport craft.

Docking Port



STARFLEET REFERENCE MANUAL

DOCKPORT CRAFT

Light Shuttle



ACCESS HATCH



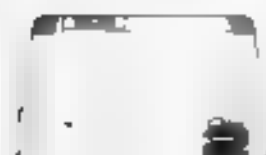
PORT PROFILE

DOCKING TUBE

DOCKING RING

REACTION
CHAMBER
THRUSTER

TOP PROFILE

LET SAMPLE
SHUTTLE
COLLECTORSVISUAL DOCKING
BEACONATMOSPHERIC
SHIELD

FRONT PROFILE

DOCKING
RING

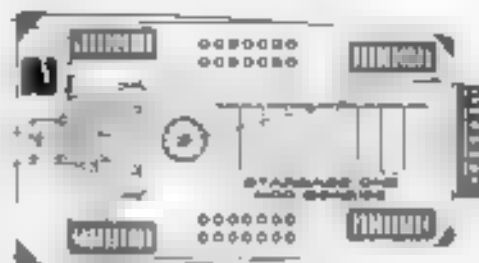
DOCKING LIGHTS



REAR PROFILE

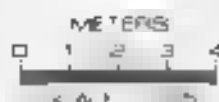
EXTENDABLE
LANDING PADS

PLASMA

SHOCK
ARM

BOTTOM PROFILE

LOWER BAY HATCH

REACTION
CHAMBER
THRUSTER

Class Emblem



Craft Silhouettes

Total Target Area: 80.78 m²Top Silhouette
Area: 49.08 m²Front Silhouette
Area: 4.72 m²Port Silhouette
Area: 26.98 m²



DOCKPORT CRAFT

Cargo Shuttle

FEDERATION CLASS

ACCESS HATCH

3

Docking Tube

Docking Port

REACTION
CONTROLS
THRUSTERS

UPPER PHASER
BANK

VISUAL LOCATION
DESIGN

PORT PROFILE

Upper (Upper)
Hatch

Upper Surface
Space Heavy
Cylinders

ATMOSPHERE
SHIELD

TOP PROFILE

Docking
Rail
Docking Units

FRONT PROFILE

REAR PROFILE

EXTENDED
LANDING PAD

SENSOR
ARRAY

PHASERS

LOWER HATCH

METERS

0 1 2 3 4
METERS

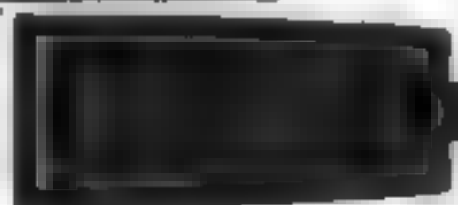
BOTTOM PROFILE

Class Emblem



Craft Silhouettes

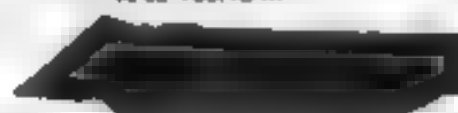
Total Target Area 224.24 m²



Top Silhouette
Area 126.16 m²



Front Silhouette
Area 30.89 m²

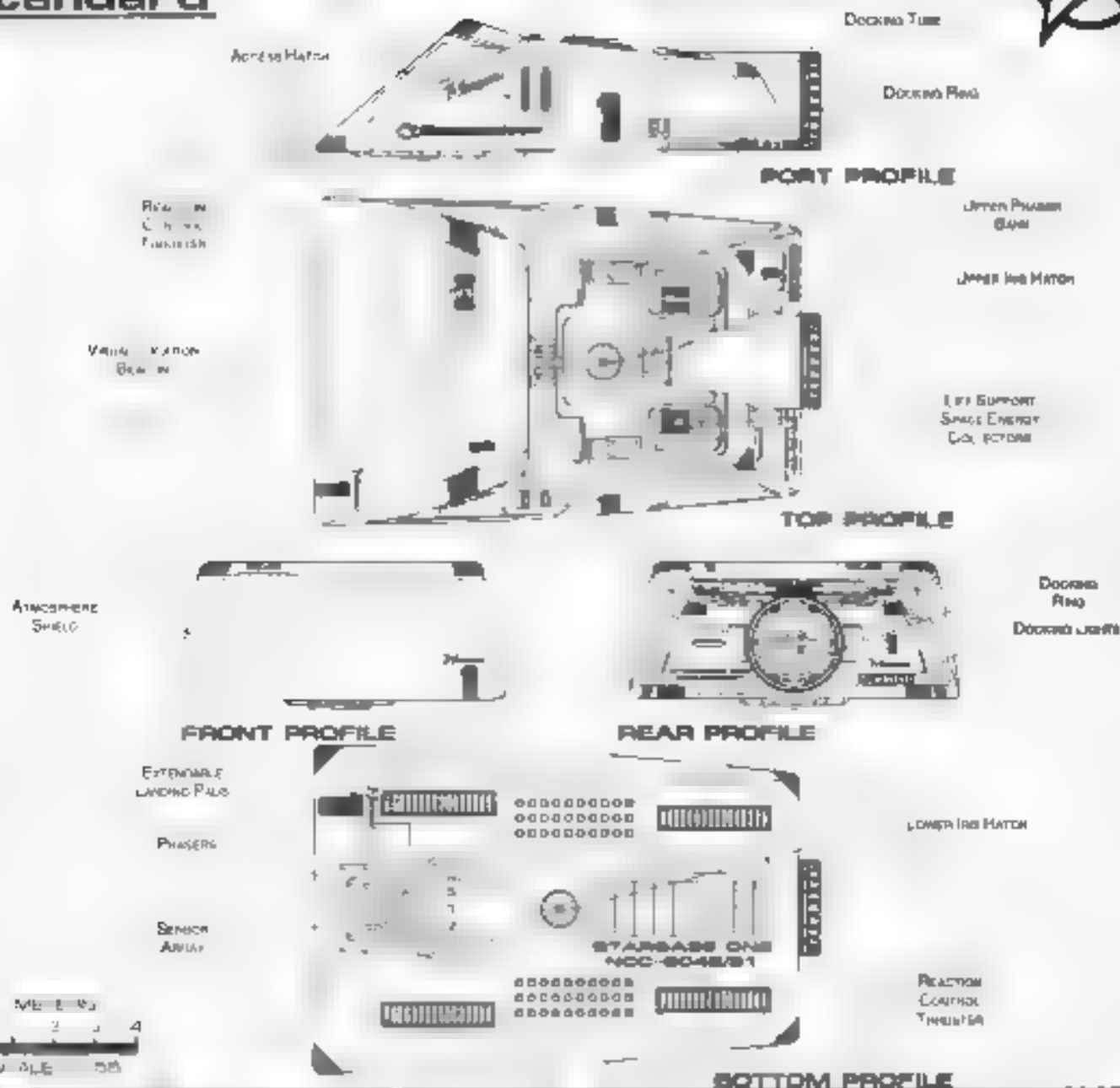


Port Silhouette
Area 66.09 m²

FEDERATION CRAFT

DOCKPORT CRAFT

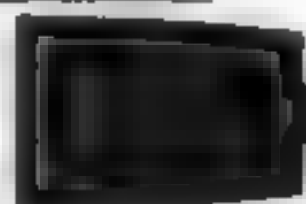
Standard



Class Emblem



Craft Silhouettes

Total Target Area: 1,421.00 m²Top Silhouette
Area 25.00 m²Front Silhouette
Area 25.00 m²Port Silhouette
Area 25.00 m²



DOCKPORT CRAFT

GENERAL INFORMATION

DockPort Attachment Compatibility Chart

	Standard Shuttle	Light Shuttle	Cargo Shuttle	Heavy Shuttle	Star Shuttle	Star Shuttle	Aquatic Encasement	Communication Module	Fuel Module	Impulse Module	Manipulation Module	Micro Warp Module	Phase Module	Photon Torpedo	Research Module	Sensor Array Module	Survey Module	Tractor Beam Module	Tow Hitch Module	Medical Pod	Passenger Pod	Cargo Pod	Light Cargo Pod
Standard Shuttle																							
Light Shuttle																							
Cargo Shuttle																							
Heavy Shuttle																							
Star Shuttle																							
Aquatic Encasement																							
Communication Module																							
Fuel Module																							
Impulse Module																							
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Survey Module																							
Tractor Beam Module																							
Tow Hitch Module																							
Medical Pod																							
Passenger Pod																							
Cargo Pod																							
Light Cargo Pod																							

Aquatic Encasement

Communication Module

Fuel Module

Impulse Module

Manipulation Module

Micro Warp Module

Phase Module

Photon Torp

Research Module

Sensor Array Module

Survey Module

Tractor Beam Module

Tow Hitch Module

Medical Pod

Passenger Pod

Cargo Pod

Light Cargo Pod

Composite Example

REFERENCE MANUAL

DOCKPORT CRAFT

Heavy Shuttle



TELESCOPE SENSOR

DOCKING TUBE

ACCESS HATCH

DOCKING RAMP

REACTION
CONTROL
THRUSTER

PORT PROFILE

UPPER PHASER
BANKVISUAL LOCATION
BEACON

JUNCTION HATCH

LINE BURNOUT
SPACE ENERGY
COLLECTOR

TOP PROFILE

ATMOSPHERE
SHIELDDOCKING
PANEL

DOCKING LIGHTS

FRONT PROFILE

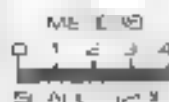
REAR PROFILE

EXTENSIBLE
LANDING PAD
PHASERSATTACHMENT
PLATE

LOWER JUNCTION HATCH

SENSOR
ARRAYSTANDARD ONE
HULL SENSORREACTION
CONTROL
THRUSTER

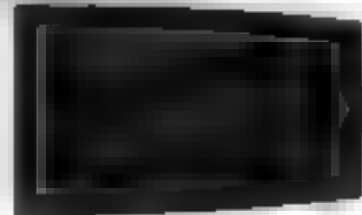
BOTTOM PROFILE



Class Emblem



Craft Silhouettes

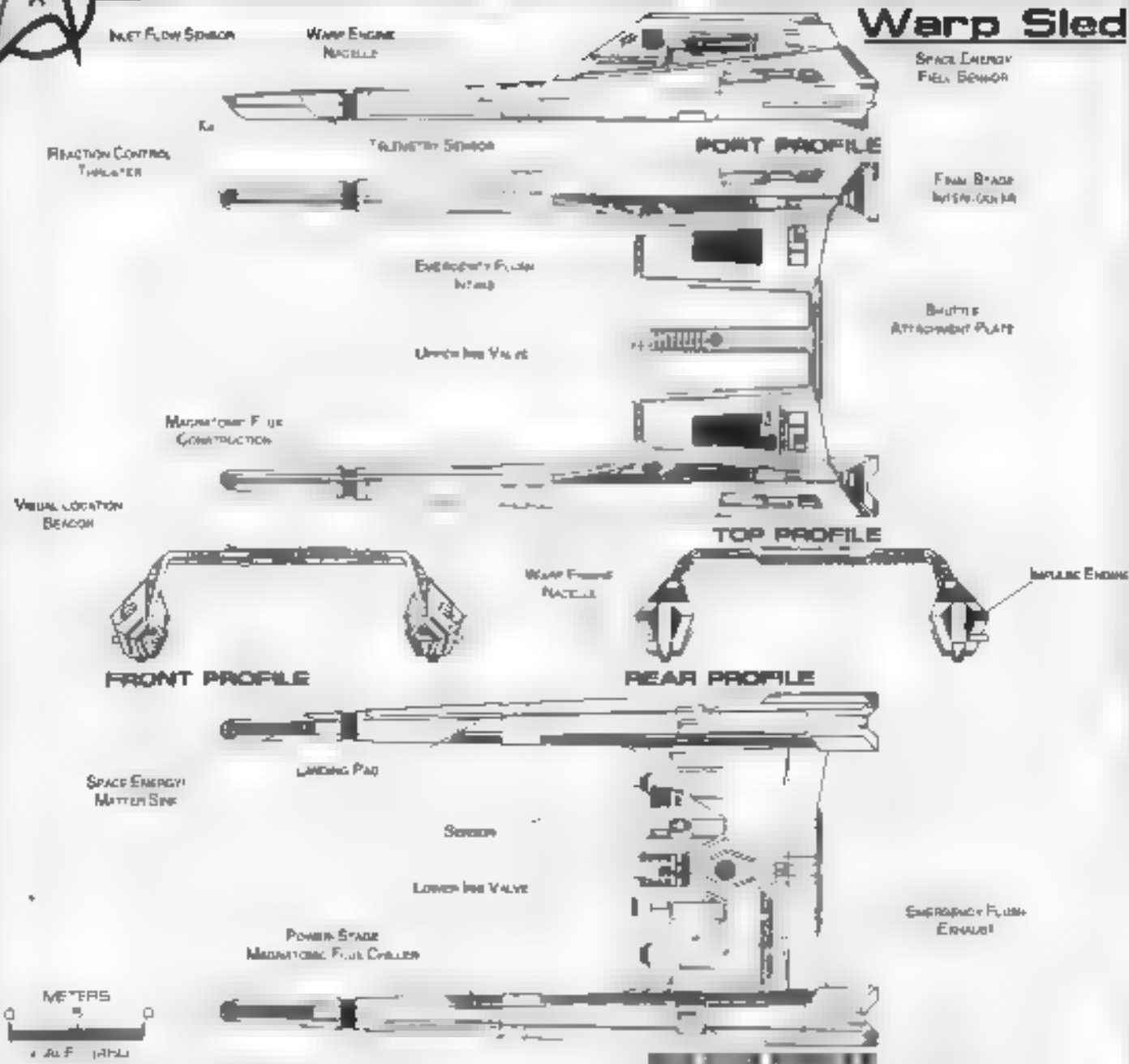
Total Target Area 690.18 m²Top Silhouette
Area 188.44 m²Front Silhouette
Area 47.64 m²Port Silhouette
Area 33.94 m²



DOCKPORT CRAFT

Warp Sled

TAI CLASS



Class Emblem



Craft Silhouettes

Total Target Area: 871.84 m²



Top Silhouette
Area: 871.84 m²



Front Silhouette
Area: 62.38 m²



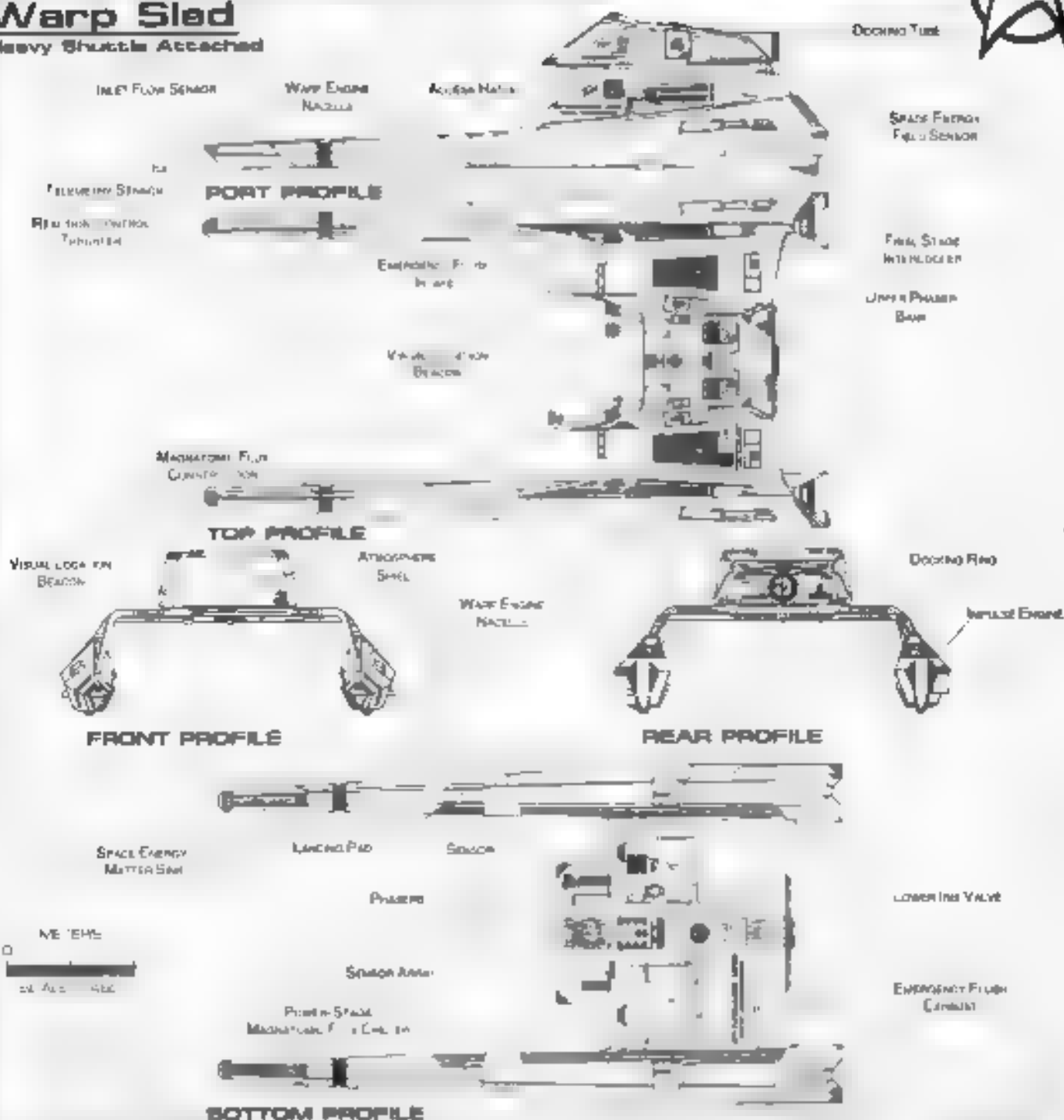
Rear Silhouette
Area: 821.80 m²

FEDERATION CRAFT

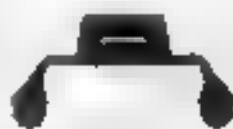
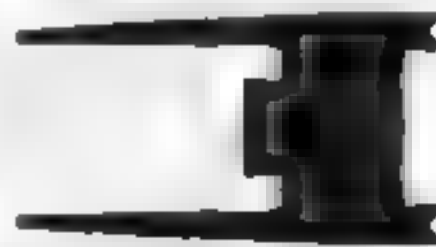
DOCKPORT CRAFT

Warp Sled

Heavy Shuttle Attached



Craft Silhouettes

Total Target Area: 1088.97 m²Front Silhouette
Area: 11.18 m²Port Silhouette
Area: 279.78 m²Top Silhouette
Area: 691.88 m²

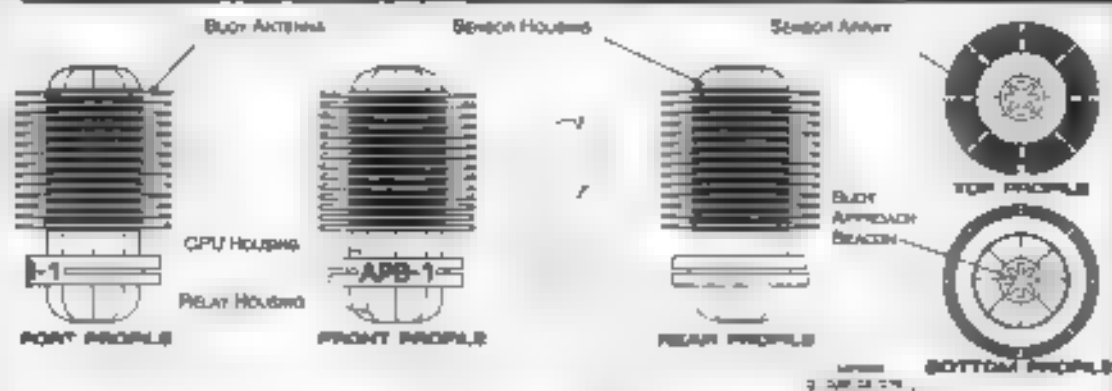


Buoys

Many types of buoys are required for the safe navigation and expansion of Federation borders. Most of the buoys are strictly general purpose navigational aids; however, there are several specific mission units.

Approach Position Beacon

APB-1/OC

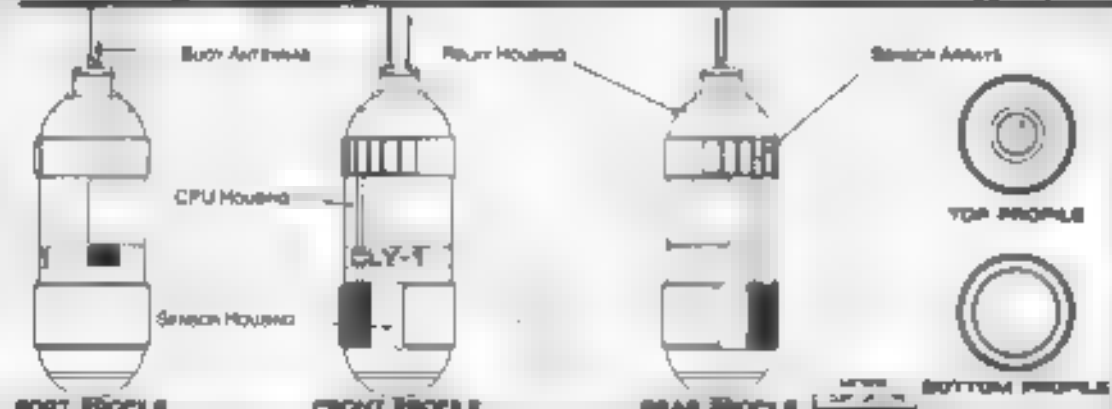


Classification:
Approach Position Beacon
Model: APB-1
Manufacturer:
Overall Dimensions (Diameter)
Length: 15m
Width: 45m
Height: 5m
Deployment:
Standard: GCU 75 kg
Performance:
Range: 600-10¹² km
Temperature:
Operating: -273°C
Power Features:
Power: 100W
Power Source: Solar
Power Source: Battery
Power Source: Fuel Cell
Power Source: Nuclear
Power Source: Other

General Description: These buoys, referred to as APBs, are the primary navigational aids in the outer reaches of the galaxy and extremely cluttered areas for navigational reference purposes. They also provide precise guidance information for navigating hazardous debris fields and complex planetary systems. A Galactic time base is included in the standard configuration.

Colony Buoy

CLY-1/POB



Classification:
Colony Buoy
Model: CLY-1
Manufacturer:
Overall Dimensions (Diameter)
Length: 15m
Width: 45m
Height: 5m
Deployment:
Standard: 147 kg
Performance:
Range: 100-10¹² km
Temperature:
Operating: -273°C
Power Features:
Power: 100W
Power Source: Solar
Power Source: Battery
Power Source: Fuel Cell
Power Source: Nuclear
Power Source: Other

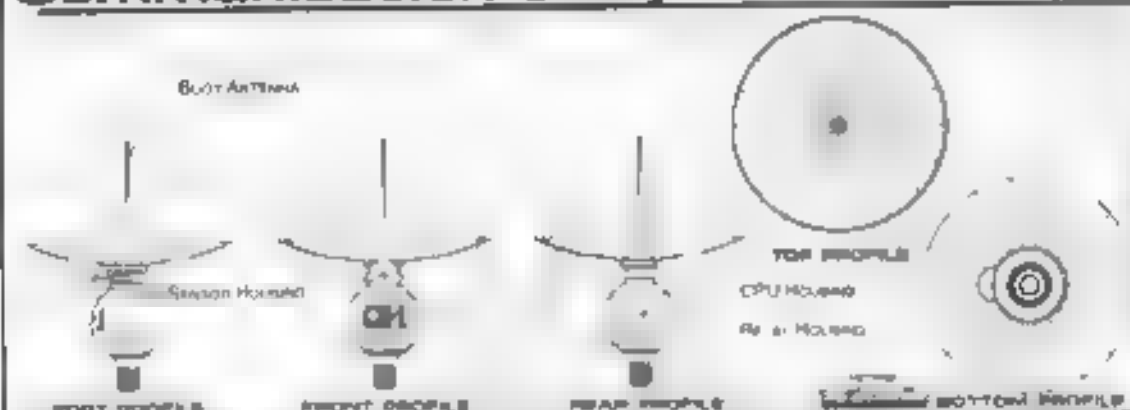
General Description: The Colony Buoy is usually placed in orbit over a colony planet. This buoy provides subspace communications, orbital surveillance and general sensor sweeps of the colony planet for survey related work.

BUOYS



Communication Buoy

CB-1, KKR

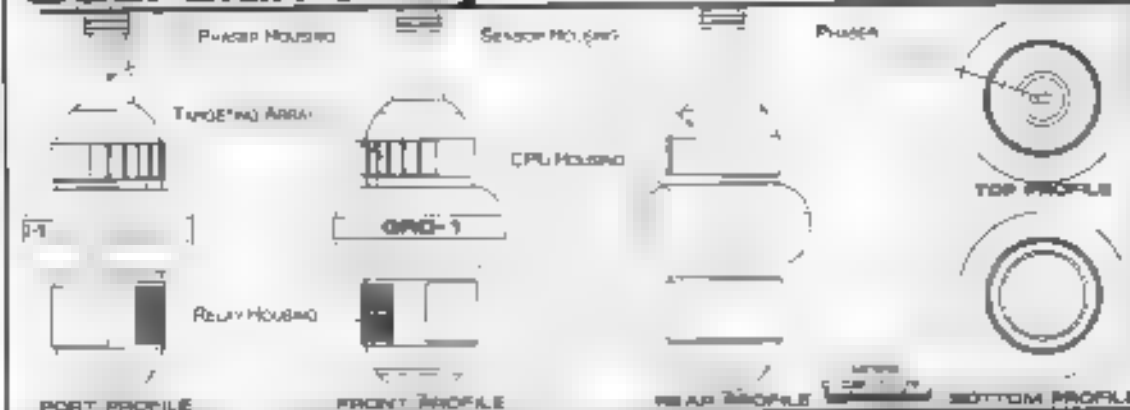


General Description: The Communication Buoy (CB-1, KKR) is a small, compact, and highly efficient communication device. It is designed to provide a reliable and secure communication link between peripheral units and a deep space facility. A Galactic time base is included in the standard configuration.

Classification:	Communication Buoy
Model:	CB-1
Overall Dimensions (Meters):	
Length	1.0
Width	1.0
Height	1.0
Displacement	100 kg
Performance:	
Range	1000 km
Features:	
Relay Housing	Yes
CPU Housing	Yes
Sensor Housing	Yes
Buoy Antenna	Yes
Galactic Time Base	Yes

Guardian Buoy

GB-1, LUN

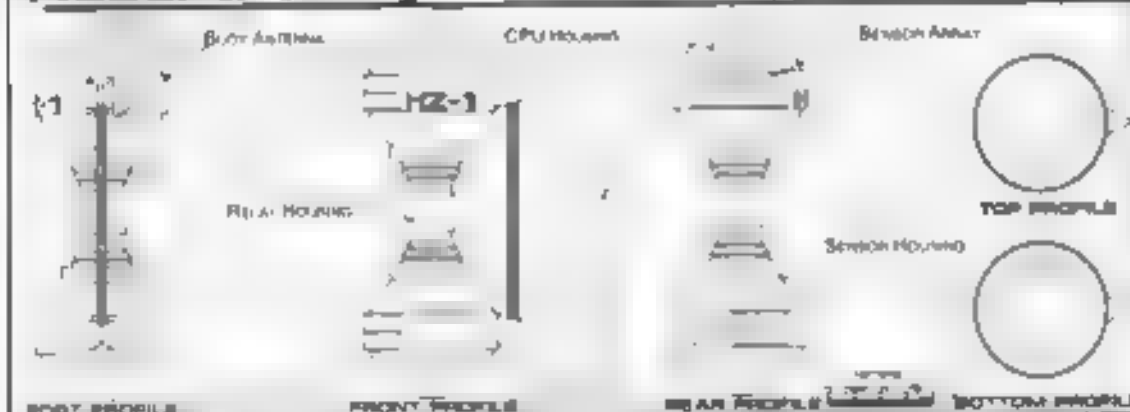


General Description: The Guardian Buoy (GB-1, LUN) is a small, compact, and highly efficient communication device. It is designed to provide a reliable and secure communication link between peripheral units and a deep space facility. A Galactic time base is included in the standard configuration.

Classification:	Communication Buoy
Model:	GB-1
Overall Dimensions (Meters):	
Length	1.0
Width	1.0
Height	1.0
Displacement	100 kg
Performance:	
Range	1000 km
Features:	
Relay Housing	Yes
CPU Housing	Yes
Sensor Housing	Yes
Buoy Antenna	Yes
Galactic Time Base	Yes

Hazard Buoy

HB-1, VEC



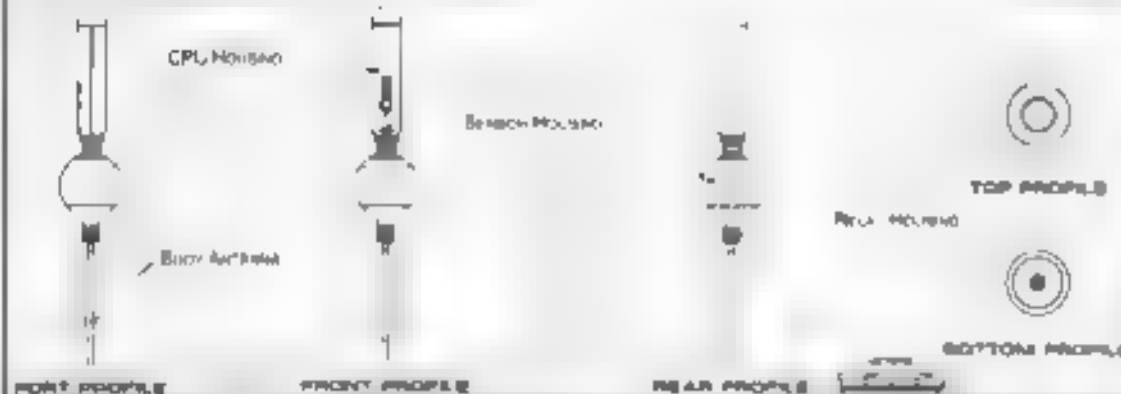
General Description: The Hazard Buoy (HB-1, VEC) is a small, compact, and highly efficient communication device. It is designed to provide a reliable and secure communication link between peripheral units and a deep space facility. A Galactic time base is included in the standard configuration.

Classification:	Communication Buoy
Model:	HB-1
Overall Dimensions (Meters):	
Length	1.0
Width	1.0
Height	1.0
Displacement	100 kg
Performance:	
Range	1000 km
Features:	
Relay Housing	Yes
CPU Housing	Yes
Sensor Housing	Yes
Buoy Antenna	Yes
Galactic Time Base	Yes

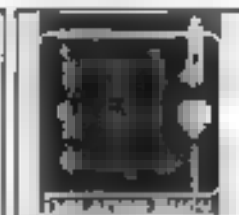


Isolation Buoy

ISO-1, X15



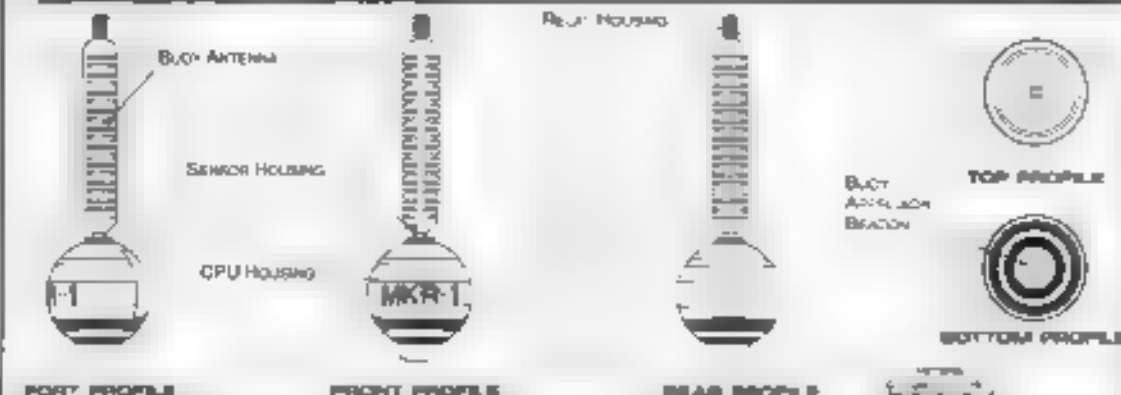
General Description: The ISO-1 Buoy is a spherical buoy with a diameter of 1.5 meters. It is used to mark a specific location in space. The buoy is made of a lightweight material and is designed to be easily deployed and retrieved. It is used to mark a specific location in space, such as a point of interest or a hazard. The buoy is used to mark a specific location in space, such as a point of interest or a hazard.



Classification:
Type: Buoy
Model: ISO-1
Designation: ISO-1
Length: 1.5 m
Width: 1.5 m
Height: 1.5 m
Weight: 1.5 kg
Material: Aluminum
Manufacturer: Starfleet
Year: 2000

Marker Buoy

MCR-1/ DWE



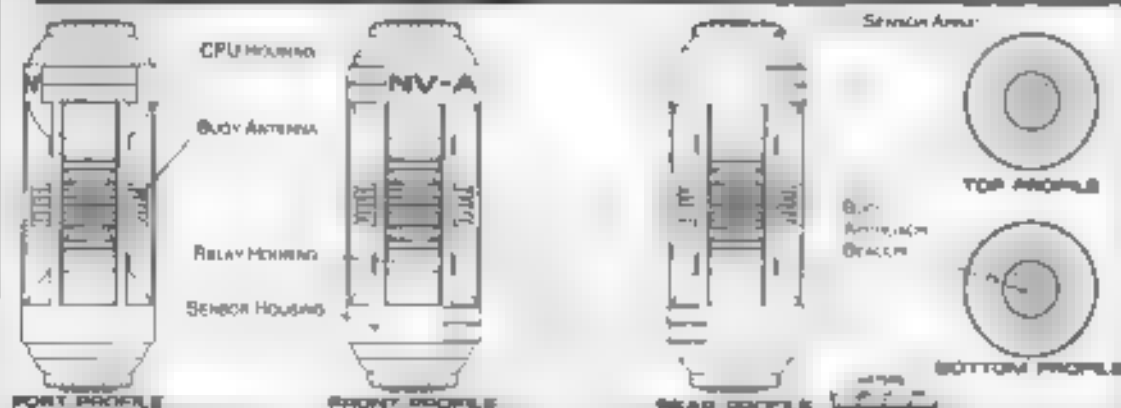
General Description: The MCR-1 Buoy is a spherical buoy with a diameter of 1.5 meters. It is used to mark a specific location in space. The buoy is made of a lightweight material and is designed to be easily deployed and retrieved. It is used to mark a specific location in space, such as a point of interest or a hazard. The buoy is used to mark a specific location in space, such as a point of interest or a hazard.



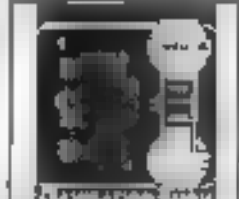
Classification:
Type: Buoy
Model: MCR-1
Designation: MCR-1
Length: 1.5 m
Width: 1.5 m
Height: 1.5 m
Weight: 1.5 kg
Material: Aluminum
Manufacturer: Starfleet
Year: 2000

Navigation Buoy

NV-A, BBC



General Description: The NV-A Buoy is a spherical buoy with a diameter of 1.5 meters. It is used to mark a specific location in space. The buoy is made of a lightweight material and is designed to be easily deployed and retrieved. It is used to mark a specific location in space, such as a point of interest or a hazard. The buoy is used to mark a specific location in space, such as a point of interest or a hazard.

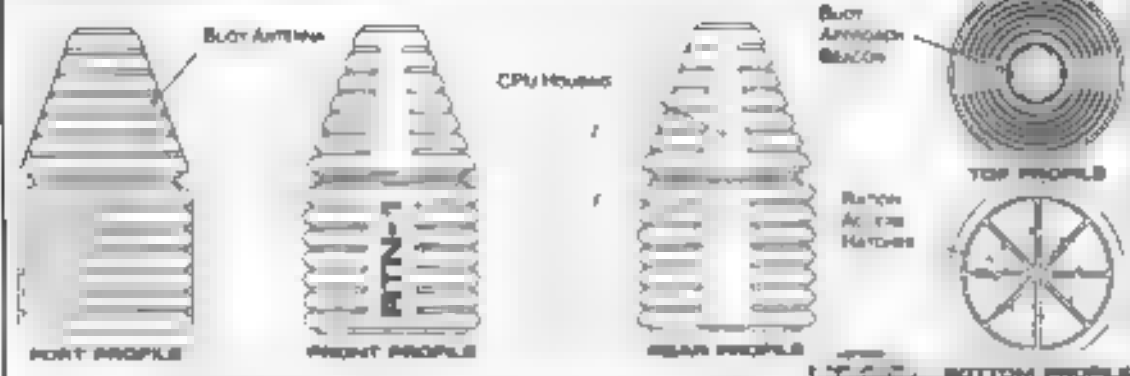


Classification:
Type: Buoy
Model: NV-A
Designation: NV-A
Length: 1.5 m
Width: 1.5 m
Height: 1.5 m
Weight: 1.5 kg
Material: Aluminum
Manufacturer: Starfleet
Year: 2000

BUOYS



Ration Buoy

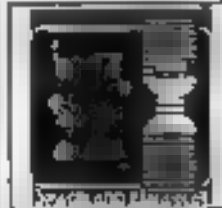
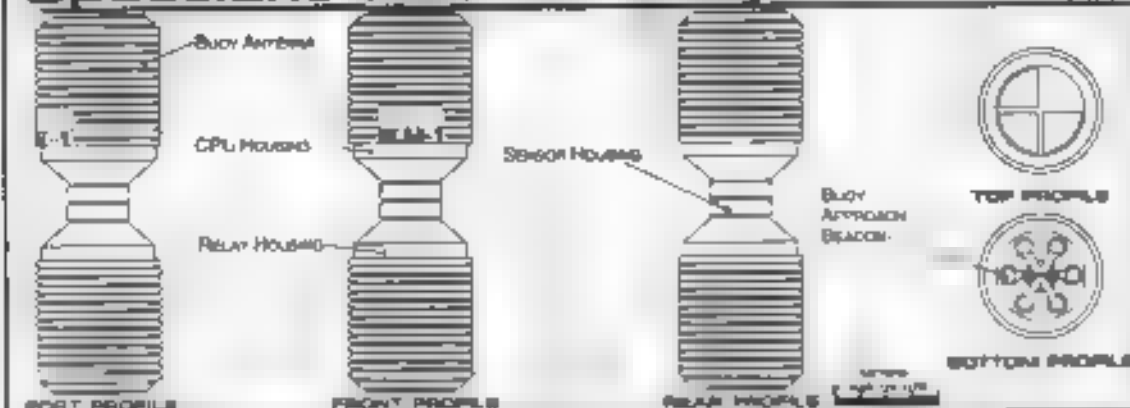


Classification:
Type: Ration
Model:
RTN-1
Overall Dimensions (Standard)
Length: 40m
Width: 40m
Height: 40m
Displacement:
Standard: 100,000 kg
Performance:
Range: 4.0x10¹² km
Speed: 100 km/h
Key Features:
- Self-repairing
- Multi-sensor
- Power self
- Submersible
- Deployable

General Description: Ration buoys are used to provide a means of survival for those who are stranded in space. They are designed to be damaged or destroyed with little or no warning, ensuring that survivors in life boats, escape pods and shuttles will be able to find food, water and rescue beacons in these buoys.

Spacelane Marker Buoy

SLM-1, RTY

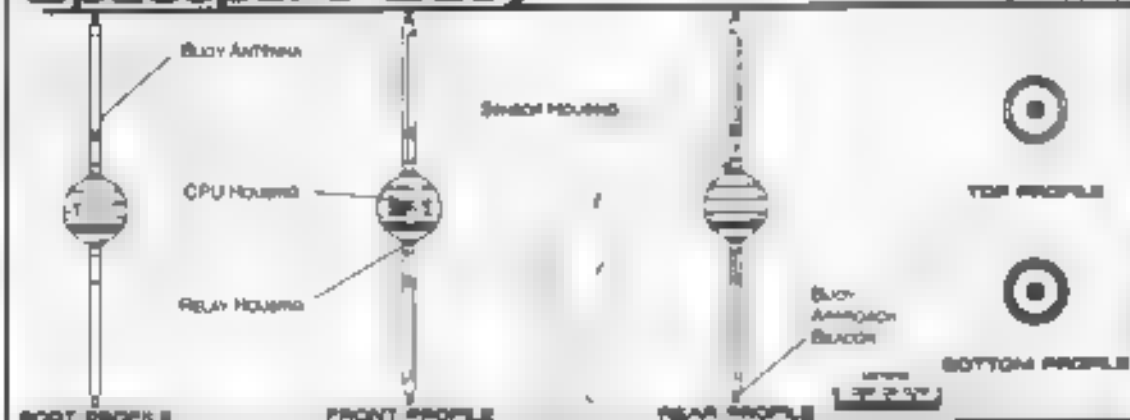


Classification:
Type: Spacelane Marker Buoy
Model:
SLM-1
Overall Dimensions (Standard)
Length: 10m
Width: 10m
Height: 10m
Displacement:
Standard: 10,000 kg
Performance:
Range: 10x10¹² km
Speed: 100 km/h
Key Features:
- Self-repairing
- Multi-sensor
- Power self
- Submersible
- Deployable

General Description: These buoys are used to mark the boundaries of the Spacelane. They are designed to be damaged or destroyed with little or no warning, ensuring that survivors in life boats, escape pods and shuttles will be able to find food, water and rescue beacons in these buoys.

Spaceport Buoy

SP-1, AAA



Classification:
Type: Spaceport Buoy
Model:
SP-1
Overall Dimensions (Standard)
Length: 10m
Width: 10m
Height: 10m
Displacement:
Standard: 10,000 kg
Performance:
Range: 10x10¹² km
Speed: 100 km/h
Key Features:
- Self-repairing
- Multi-sensor
- Power self
- Submersible
- Deployable

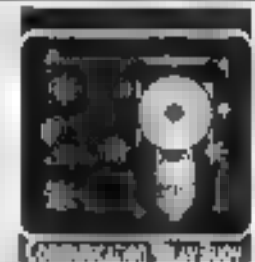
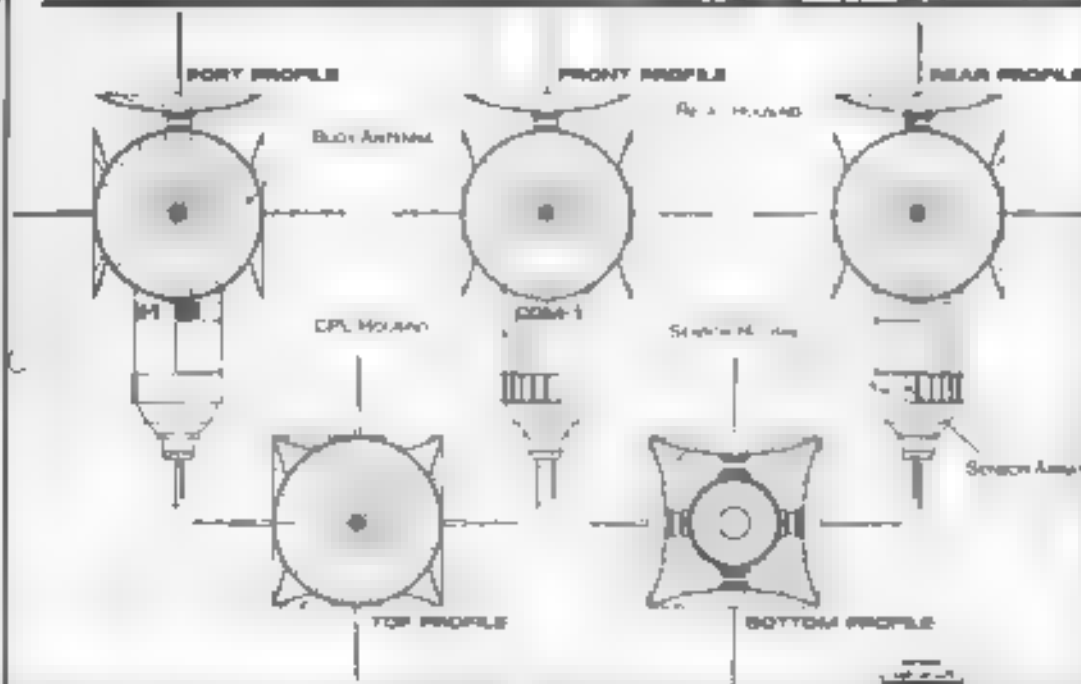
General Description: These buoys are used to provide a means of survival for those who are stranded in space. They are designed to be damaged or destroyed with little or no warning, ensuring that survivors in life boats, escape pods and shuttles will be able to find food, water and rescue beacons in these buoys.



BUOYS

GENERAL INFORMATION

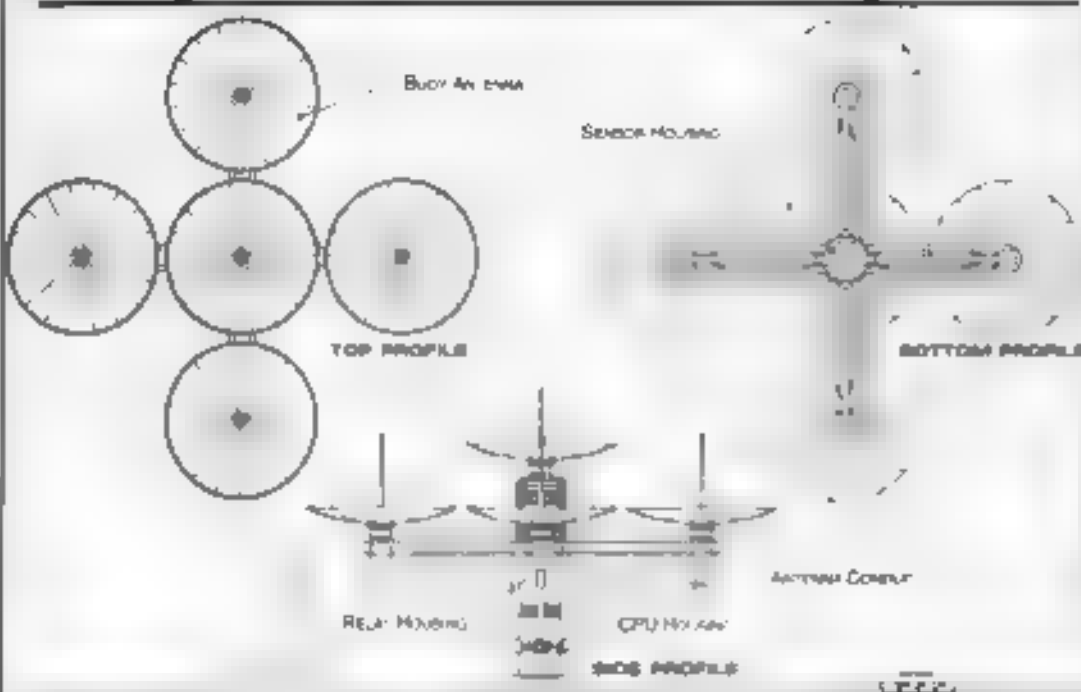
Communication Relay Buoy COM-1, 458



Classification:
Type: Communication Buoy
Model: 458
Length: 4.5m
Width: 3.5m
Height: 2.5m
Displacement: 10,000 kg
Performance:
Range: 100,000 km
Throughput: 100,000 bps
Power: 100,000 W
Buoy Features:
- 100,000 channels of long-range sub-space communications
- 100,000 channels of long-range sub-space communications
- 100,000 channels of long-range sub-space communications
- 100,000 channels of long-range sub-space communications

General Description: The Communication Relay Buoy is a small, unmanned buoy that has been developed for heavy, long-range traffic. These buoys are not always placed near space lanes; instead, they are placed at line of sight intersections between several worlds or starbases. These units can be used back to back or near other relay buoys such as the Communication buoy or the Heavy Communication buoy to form relay networks.

Heavy Communication Buoy HCB-1/ETG



Classification:
Type: Heavy Communication Buoy
Model: 1/ETG
Length: 10m
Width: 5m
Height: 3m
Displacement: 10,000 kg
Performance:
Range: 100,000 km
Throughput: 100,000 bps
Power: 100,000 W
Buoy Features:
- 100,000 channels of long-range sub-space communications
- 100,000 channels of long-range sub-space communications
- 100,000 channels of long-range sub-space communications
- 100,000 channels of long-range sub-space communications

General Description: The Heavy Communication Buoy is a small, unmanned buoy that has been developed for heavy, long-range traffic. This buoy provides over 500,000 channels of long-range sub-space communications for peripheral worlds and deep-space facilities. A Galactic data-base is included in the standard configuration.

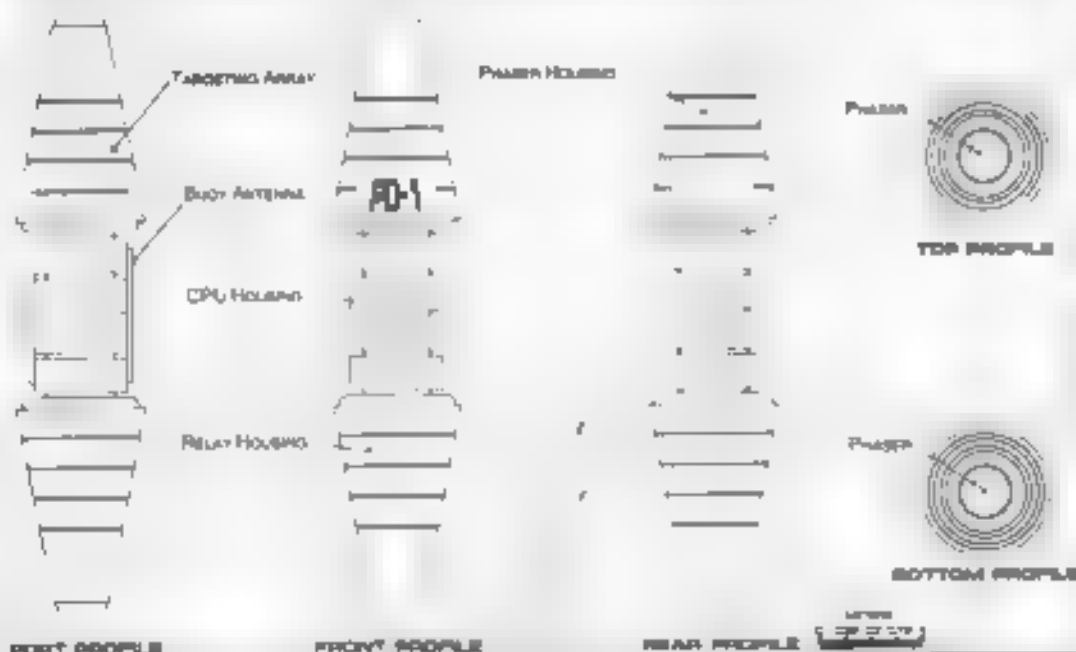
FEDERATION BUOY

BUOYS



Perimeter Defense Buoy

PD-1, 340T



Classification:

Type: Defense Buoy

Model: 340T

Overall Dimensions (Meters)

Length: 11m

Width: 11m

Height: 11m

Displacement: 11,000 kg

Power Source: 100 MW

Teleport: 100 MW

Buoy Features:

- 100 MW

- 100 MW

- 100 MW

- 100 MW

- 100 MW

- 100 MW

- 100 MW

- 100 MW

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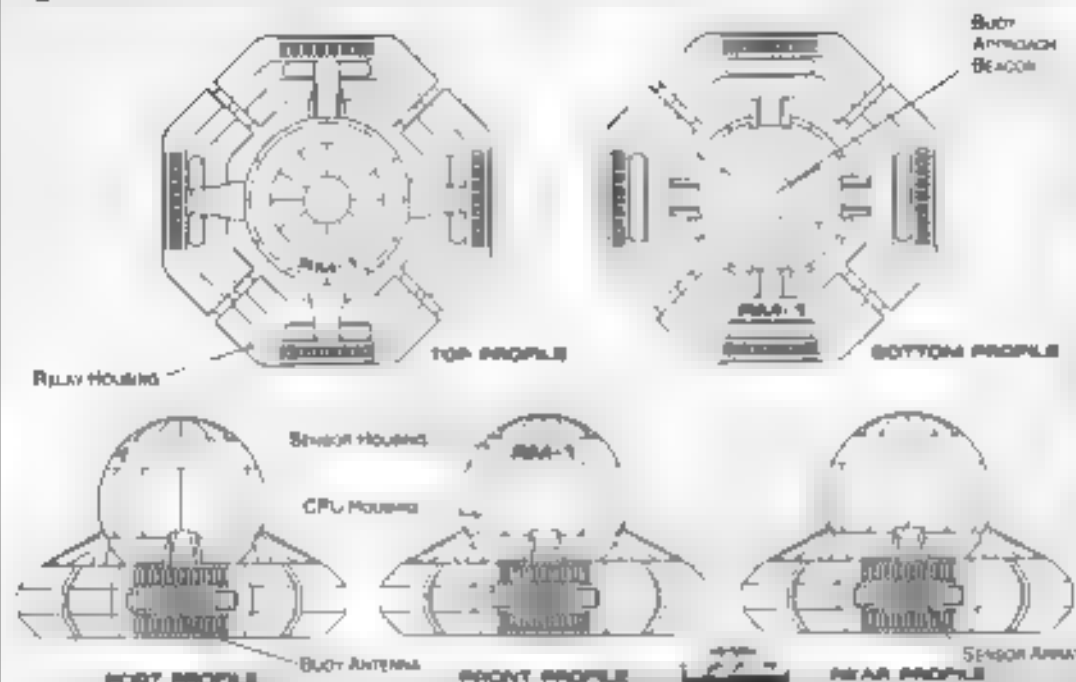
- 100 MW

- 100 MW

General Description: Perimeter Defense Buoys provide a spartan home submarine net. Originally used to keep small starships from penetrating sensitive areas it has 2 standard ships phasers, capable of firing every 3 seconds at full power for 7 minutes. In addition to E.C.M. and sub space field detection capabilities this buoy can be remote controlled from a planet's surface or even a distant space station. This buoy can damage or destroy small starships and several Perimeter Defense Buoys could provide a substantial delay until help can arrive. When compromised the buoy will explode with a 1,000 joule meter detonation radius.

Regional Marker Buoy

RM-1, P20



Classification:

Type: Marker Buoy

Model: P20

Overall Dimensions (Meters)

Length: 11m

Width: 11m

Height: 11m

Displacement: 11,000 kg

Power Source: 100 MW

Teleport: 100 MW

Buoy Features:

- 100 MW

- 100 MW

- 100 MW

- 100 MW

- 100 MW

- 100 MW

- 100 MW

- 100 MW

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- 100 MW



Regional Marker Buoy

RM-1, P20

RM-1, P20

RM-1, P20

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RM-1, P20

RM-1, P20

RM-1, P20

RM-1, P20

General Description: Regional Markers help define explored areas of space by providing navigational information and reference for each sector. Any Federation vessel can access the storage banks in these buoys and send or receive navigational updates, information on planetary cultures and a record of previous contacts. A galactic time base is included in the standard configuration.



Size Comparison

Cruiser



Destroyer



Battlecruiser



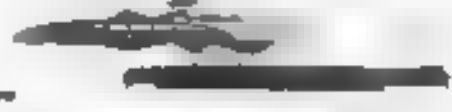
Submarine



Heavy Cruiser



Frigate



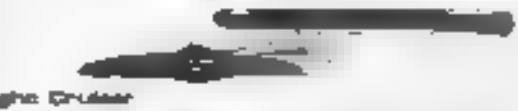
Heavy Cruiser



Heavy Frigate



Light Cruiser



Through Deck Cruiser

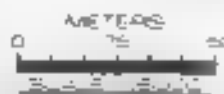


Tactical Cruiser



Transport/Tug

Cargo Drone



Freighter



Container Tug



Supply Tender



Shuttle



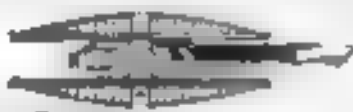
Transport Ship



Supply Tender



Deepwater Tender



Heavy Tug



Neutrino Fuel Carrier



Tug



A2



D5

B3

C4

A1

B1

C1

D1

E1

F1

Star Cargo Carrier



CRUISER



General Information

Specific Role: The Cruiser is a moderately armed, general purpose, defense capable exploration and research vessel. This graceful birdlike cruiser is equipped with powerful shields, long range sensors and is quite maneuverable.

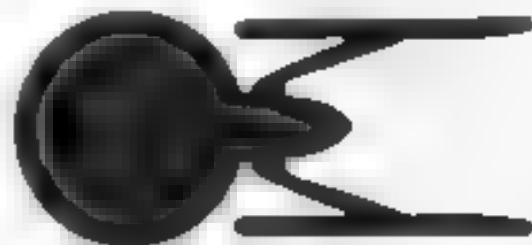
Physical Description: The BS-2076's bridge is centered on top of the PH290 (C-15) primary hull and the AN-6 navigation dome is located underneath. Two (B12/60-20) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (B1/58-27) connecting dorsal mates the primary hull to the (S-1258 C-14) secondary hull. Two (P1/2/50-200) photon torpedo bays and two (B12/30-20) phaser banks are located fore and aft of the secondary hull. Four (P1/30-20) phasers are mounted laterally, as well as, just above the forward photon bay is a (B35/1-40) tractor beam emitter and below is the (AN-6 A) main navigation deflector. Just below the rear photon bay is a large cargo/hangar bay. The (M50/28-48) life support chamber rises vertically from the deflection crystal down to the secondary hull where an electric rail allows the core to be jettisoned downward in an emergency. The matter and matter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (R-700/8-18) dual impulse rail located in the rear of the primary hull provides sub light propulsion. For warp propulsion two (S6-1/4-2/08T) nacelles are supported by (P1/70-28) support pylons mounted half way back on the secondary hull. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 88128.81 m²



Top Silhouette
Area 37972.91 m²



Port Silhouette
Area 18671.94 m²

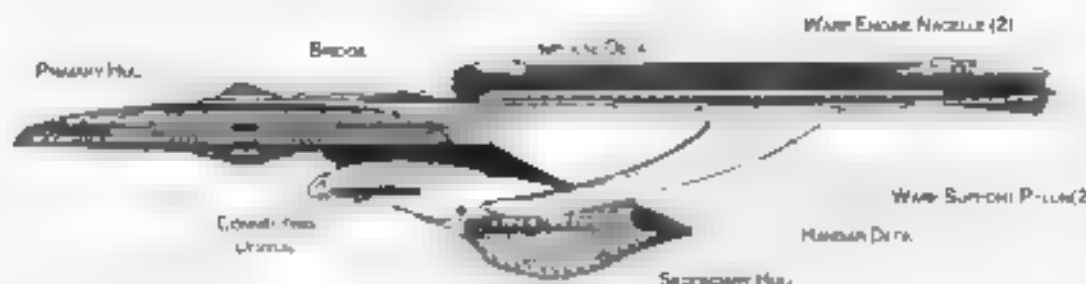


Front Silhouette
Area 5382.44 m²

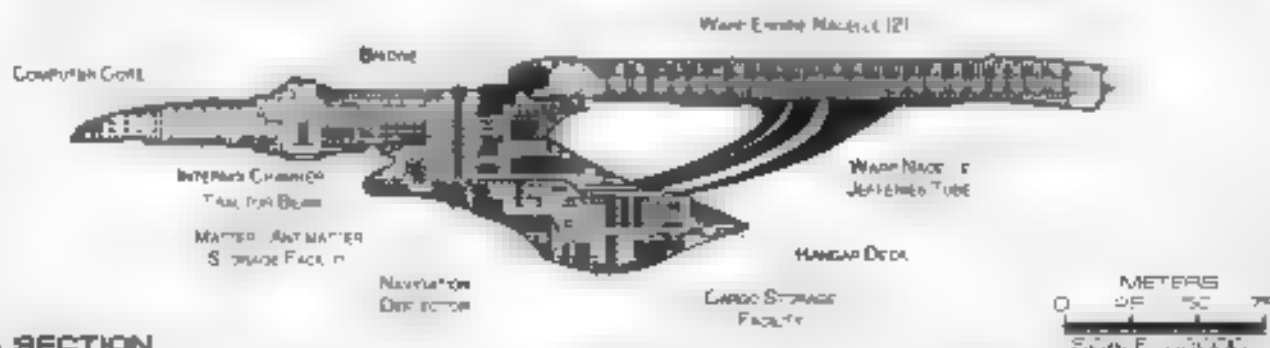


CRUISER

SOLARIS CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification

Cruiser

Class: Solaris

Type: Class

Model: MK-XII

Naval Construction Contract: 24010

Number Proposed: 88

Number Constructed: 48

Number in Service: 45

Number Lost: 3

Dimensions

Overall Dimensions (Meters)

Length: 118.32 m

Width: 77.2 m

Height: 83.24 m

Primary Hull Dimensions (Meters)

Length: 98.51 m

Width: 72 m

Height: 90.7 m

Secondary Hull Dimensions (Meters)

Length: 45.74 m

Width: 41.60 m

Height: 48.10 m

Warp Unit Dimensions (Meters)

Length: 27.61 m

Width: 5.92 m

Height: 20.4 m

Displacement (Metric Tons)

Light: 240150 t

Standard: 300000 t

Full Load: 387130 t

Performance

Impulse Units: Dual Duct (WR73E-B-M)

Impulse Engine Output: 64E+4 W

Impulse Power Index: 4

Max Cruising: 1

Acceleration Rate:

0.00-0.25 Impulse: 0.122 sec

0.25-0.50 Impulse: 0.192 sec

0.50-0.75 Impulse: 0.257 sec

0.75-Full Impulse: 0.322 sec

Warp Units: 2 Nacelle Units (SW1142-10RT)

Warp Engine Output: 9.85E+5 W

Warp Power Index: 4

Optimum Speed: 1

Max Safe Cruising: 7

Emergency Speed: 8.45

Max Speed: 9.5

Destructive Speed: 9.4

Acceleration Power: 3

Acceleration Time:

Warp 1 Warp 2: 143 sec

Warp 3 Warp 4: 228 sec

Warp 5 Warp 6: 362 sec

Warp 7 Warp 8: 24.104 sec

Warp 9 Warp 10: 1.228 sec

Warp 11 Warp 12: 1.421 sec

Warp 13 Warp 14: 8.39 sec

Warp 15 Warp 16: 0.4 sec

Warp 17 Warp 18: 4.845 sec

Warp 19 Warp 20: 6.72 sec

Warp 21 Warp 22: 4.142 sec

Duration (Hours)

Standard: 11 hours

Maximum: 24 hours

Red Shift Complement: 700

Officers:

Crew (Emergency): 540

Troops: 4

Passengers: 40

Emergency condition: +900

Medical Facilities

Doctors: 4

Nurses: 4

Operating Rooms: 5

Beds: 0

Laboratory 4

Therapeutic Total: 4

1 Person: 0

2 Person: 0

3 Person: 0

4 Person: 0

5 Person: 0

6 Person: 0

7 Person: 0

8 Person: 0

9 Person: 0

10 Person: 0

Bridge: 1

Replacers: 20

Inspector: 20

Type Capacity: 5.50E+06 mt

Max Range: 94E+05 km

Cargo Specifications

Standard Cargo Units: 200

Cargo Capacity: 4.5E+06 mt

Structural Specifications

Decking Ports: 2

Structural Bays: 10

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Structural Standard: 34

Work Bays: 2

Travel Pods: 2

Aggravate Shuttle: 1

Light Shuttle: 1

Standard Shuttle: 4

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 4

Sliver Bays: 3

Light Fighter: 4

Fighter: 1

Heavy Fighter: 3

Lifelines: 17

Turbolift: 18 persons: 70

Liftboat: 10 persons: 3

Liftboat: 30 persons: 3

Liftboat: 30 persons: 1

Shielded Devices: 0

Navigation Systems

Planetary Survey: 0.7555

Stellar Survey: 0.7547

Short Range: 0.54

Long Range: 0.6520

Navigation: 0.6600

Special: 0.7453

Communications: 2

Type: Daystrom Destructive: 7 u

Type: Daystrom Destructive: 1 u

ECM Index: 0.90

Shield Rating:

Shield Index: 1.03

Shield Power: 16E+2 W

Refresh Rate: 3.29E+3 W

Breakdown Rate: 3.94E+3 W

Shield Dimensions (Meters)

Length: 40.96 m

Width: 26.54 m

Height: 24.85 m

Weapons

Phase Power Index: 0.875

Phase Power Index: 0.667

Vessel Power Index: 0

Weapon Placement

Beam (Phase): Total: 14 banks 2 each

Output: 2E+4 W 3.7E+4 W

Range: 4 IF 0.05 km

Rate of Fire: 40 ppm Cont

Forward Banks: 2

Rear Banks: 2

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (Mega/Phase): Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Phase): Total: 4 Bays

Stock: 80

Range: 90E+08 km

Output: 10.55 Megatons

Rate of Fire: 15 ppm

Forward Bay: 2

Rear Bay: 2

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

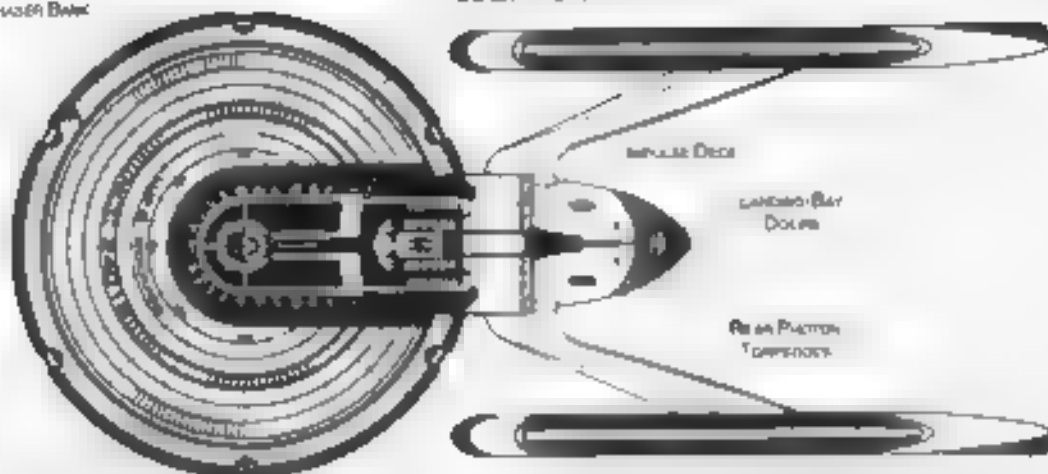
FEDERATION VESSEL

CRUISER



PHASER BANK

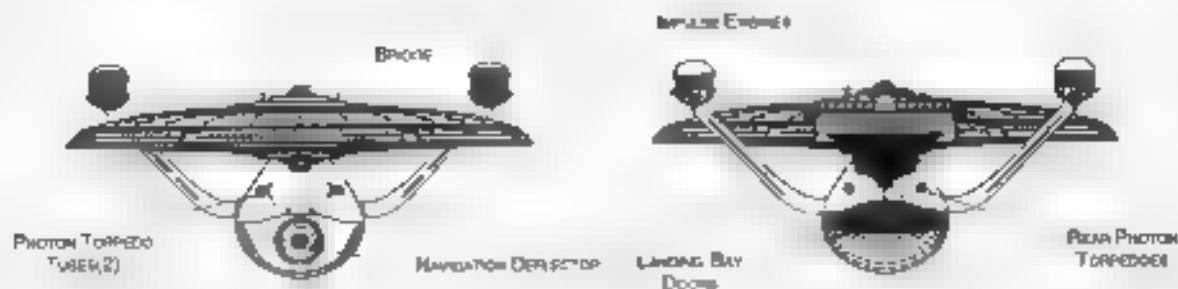
DEPLOYMENT CRIB



LIFEBOATS

REACTION CONTROL
THRUSTERLANDING BAY
DOORSREAR PHOTON
TORPEDOESREACTION CONTROL
THRUSTER

TOP PROFILE

PHOTON TORPEDO
TUBES(2)

NAVIGATION DEFLECTOR

LANDING BAY
DOORSREAR PHOTON
TORPEDOES

FRONT PROFILE

REAR PROFILE

MAIN SENSOR
ARRAY

NAVIGATION CRIB

REACTION CONTROL
THRUSTERS

LIFEBOATS

PHASER BANK

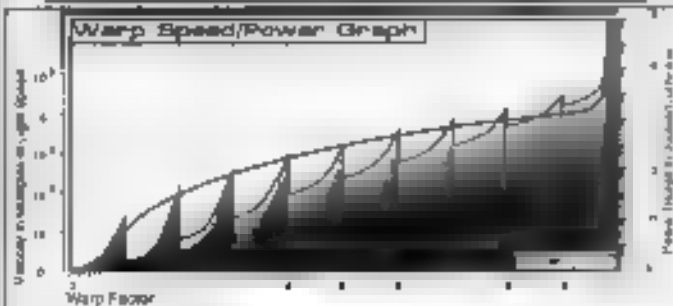
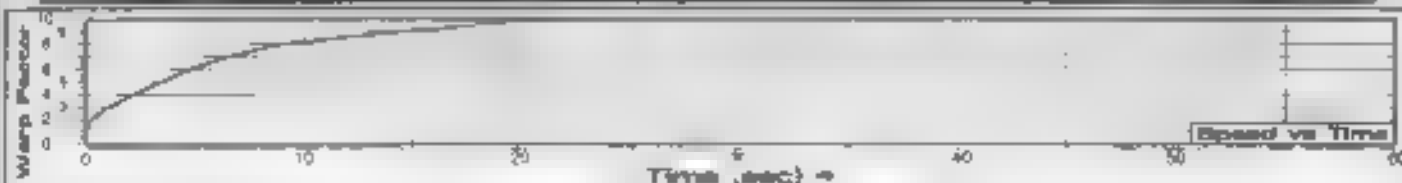
BOTTOM PROFILE

METERS
0 25 50 75

SCALE 1:30,000

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Tractor Beam Specifications



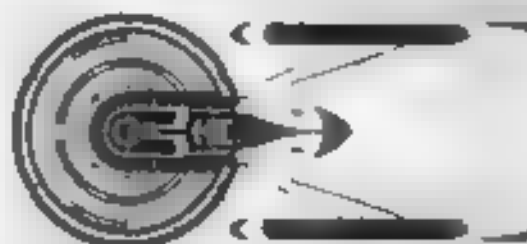
Field Length: 603.71m
Field Width: 200.23m
Field Volume: 120.84m



Front Warp Field Profile
Cross Section Area 24404.1 m²



Port Warp Field Profile
Cross Section Area: 1862.00 m²



Top Warp Field Profile
Cross Section Area: 170720.88 m²

WARP FIELDS

SAM3 04:02:01:04

STARFLEET REFERENCE MANUAL

SOLARIS CLASS

STIFFENING VESSEL

DREADNOUGHT



General Information

Specific Role: The Dreadnought is an immense starship capable of massive destruction and is often used to display a show of force in troubled areas. It is equipped with extremely powerful shields and sensors as well as extensive ECM systems. This vessel can take quite a beating. During military operations, the dreadnought is used as a point assault ship and for main line defense.

Physical Description: The BS25/C LM bridge is centered on top of the (P11322/C T5) extended primary hull, and the (DN8, 6N) navigational dome is centered underneath. Five (HP2/60 2C) phaser banks are mounted radially on the top and bottom of the primary hull. A two piece integral (DU/210-44F) connecting dorsal mates the primary hull to the (S11355/C LM) secondary hull. Two (PH2/50 20C) photon torpedo bays are located for and aft and two (B12/60 2C) phaser banks are located above and below the hangar bay. Two banks of (HP2/30 2C) phasers are mounted underneath as well. Just above the forward photon bay is a (TH5/640) tractor beam emitter and below is the (L N10, A1M) main navigation deflector. Just above the rear photon bay is a large cargo/hangar bay. The M100/42 4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection chute allows the core to be jettisoned downward in an emergency. The matter anti-matter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (RF70E, 0-RJ) dual impulse jet located on the rear of the primary hull provides sub light propulsion. For warp propulsion two (SW, (M4/2-10RT) nacelles are supported by (DU/70, 12D) support pylons mounted to the back of the secondary hull and a third warp nacelle on top is attached just forward of the main impulse drive by a (D1, 50, 12T) support pylon. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



**NIGHTER CLASS
DREADNOUGHT**

Ship Silhouettes

Total Target Area 70785.17 m²



Top Silhouette
Area 4944.70 m²



Port Silhouette
Area 18780.01 m²

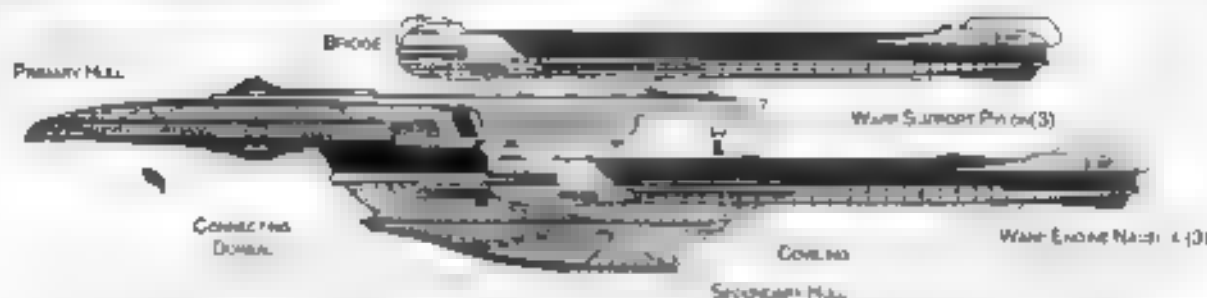


Front Silhouette
Area 5125.46 m²

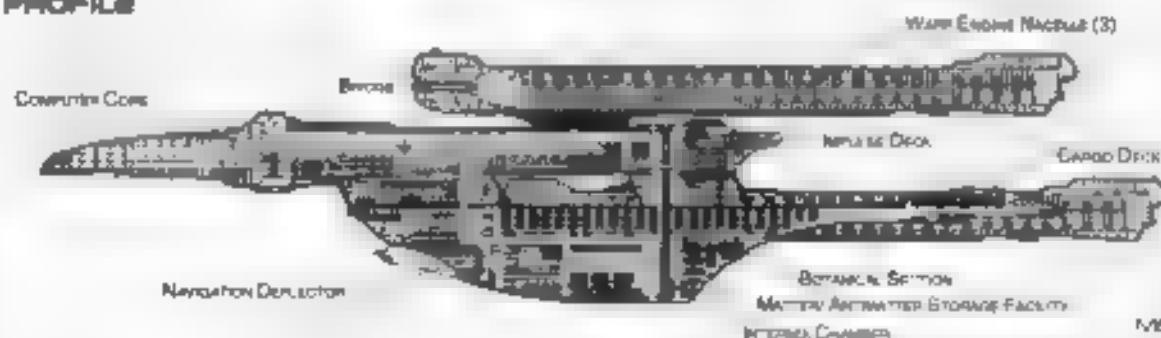


DREADNOUGHT

METERED 04:02:02



PORT PROFILE



CROSS SECTION



Statistics

Classification: Dreadnought
Category: Cruiser
Class: Nerzer
Type: Class
Model: MK-Xa

Naval Construction Contract: 21028

Number Proposed: 50

Number Constructed: 38

Number In Service: 34

Number Lost: 2

Dimensions:

Overall Dimensions (Meters)

Length: 429.54 m

Width: 77.2 m

Height: 97.27 m

Primary Hull Dimensions (Meters)

Length: 287.51 m

Width: 21 m

Height: 30.71 m

Secondary Hull Dimensions (Meters)

Length: 27.70 m

Width: 44.40 m

Height: 40.90 m

Warp Unit Dimensions (Meters)

Length: 25.29 m

Width: 10.80 m

Height: 24.72 m

Displacement (Metric Tons)

Light: 483246 m

Standard: 48574 m

Full Load: 484048 m

Performance:

Impulse Unit: Dual Unit (IRFOT/DIR)

Impulse Engine Output: 68E+14 W

Impulse Power Index: 38

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.223 sec

0.25-0.50 Impulse: 0.750 sec

0.50-0.75 Impulse: 0.468 sec

0.75-Full Impulse: 0.581 sec

Warp Units: 2 Nacelle Jaws SW1042 (OPT)

Warp Engine Output: 80E+8 W

Warp Power Index: 1.38

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 5.65

Max Speed: 9.45

Destructive Speed: 9.65

Acceleration Power: 3

Acceleration Time:

Warp 1 Warp 2: 0.45 sec

Warp 2 Warp 3: 0.33 sec

Warp 3 Warp 4: 0.86 sec

Warp 4 Warp 5: 0.64 sec

Warp 5 Warp 6: 0.55 sec

Warp 6 Warp 7: 0.45 sec

Warp 7 Warp 8: 0.80 sec

Warp 8 Warp 9: 2.680 sec

Warp 9 Warp 10: 1.5.5 sec

Warp 10 Warp 11: 2.6.50 sec

Warp 11 Warp 12: 4.366

Duration (Years)

Standard: 4 Years

Maximum: 24 Years

Std. Ship Complement: 1070

Officers: 16

Crew (Package Grade): 53

Troops: 50

Passengers: 44

Emergency condition: +1437

Medical Facilities:

Doctors:

Nurses: 2

Operating Rooms: 7

Beds: 6

Laboratories: 39

Transporters: Total: 34

1 Person: 0

2 Person: 0

6 Person: 0

12 Person: 0

22 Person: 10

Small Cargo: 7

Medium Cargo: 7

Large Cargo: 0

Super Cargo: 0

Bridge: 1

Bridge/Control: 53

Tactical Frame:

Tow Capacity: 3.99E+05 m

Max Range: 7E+05 km

Cargo Specifications:

Standard Cargo Unit: 263

Cargo Capacity: 64.50 m

Mail/Debris Specifications:

Docking Ports: 2

Shuttlecraft Bays Total: 2

Small Bay:

Medium Bay: 2

Large Bay:

Super Bay:

Shuttlecraft Standard: 76

Warp Room: 5

Traffic Pods: 5

Aquatic Shuttle: 2

Light Shuttle:

Standard Shuttle: 14

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 6

Rider Room:

Light Fighter: 10

Fighter:

Heavy Fighter: 2

Lifelines: 4

Turbolift (6 persons): 53

Liftboat (10 persons): 32

Liftboat (20 persons): 13

Liftboat (50 persons): 1

Checking Devices: 1

Escape/Lifeboats:

Planetary Drop: 6016

Stellar Survey: 3200

Short Range: 14560

Long Range: 7100

Navigation: 2.58

Special: 7000

Composites: 7

Type: Dryotrom Destructive 1710

Type: Dryotrom Destructive 1110

ECM Index: 2

Shield Rating:

Shield Index: 1.18

Shield Power: 32E+12 W

Refresh Rate: 3.76E+1 W

Breakdown Rate: 4.52E+1 W

Shield Dimensions (Meters)

Length: 644.6 m

Width: 265.82 m

Height: 145.81 m

Weapons:

Photon Power Index: 000

Photon Power Index: 657

Vapor Power Index: 1333

Weapon Placement:

Beam (Photon) Total: 18 banks 2 each

Output: 7.50E+12 W 3.7E+1 W

Range: 4.16E+05 km

Rate of Fire: 41 ppm Cont

Forward Banks: 4

Star Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (MegaPhoton) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Star Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 4 Bays

Stock: 200

Range: 2.90E+05 km

Output: 10.15 Megatons

Rate of Fire: 5 ppm

Forward Bay: 2

Star Bay: 2

Port Bay: 0

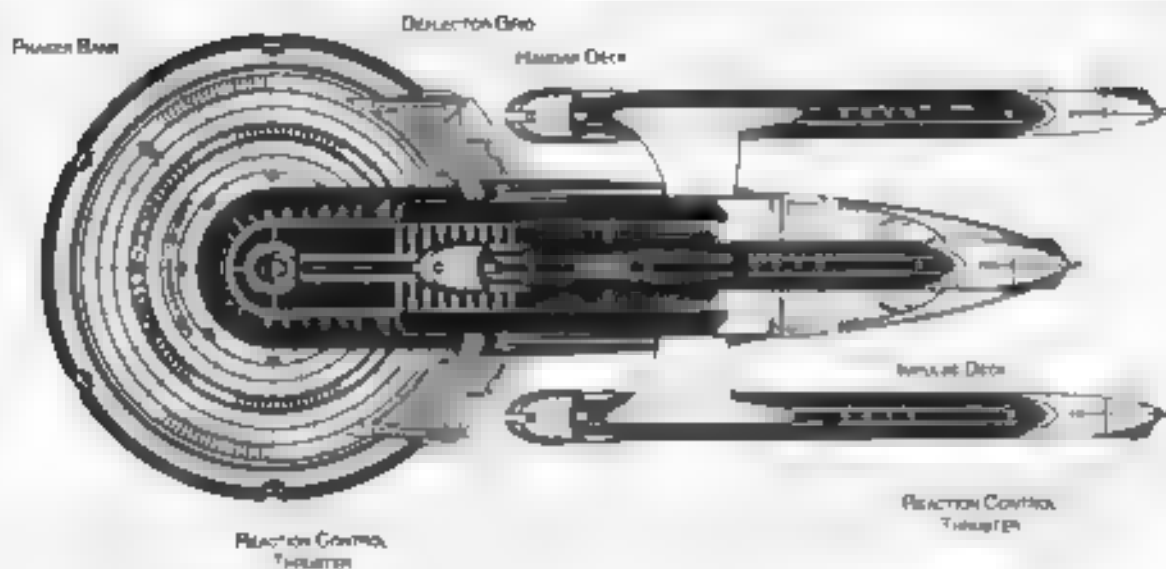
Starboard Bay: 0

Upper Bay: 0

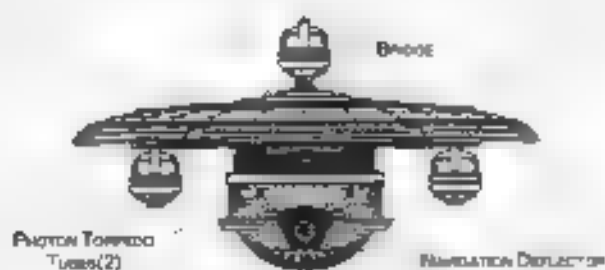
Lower Bay: 0

FEDERATION W/0351

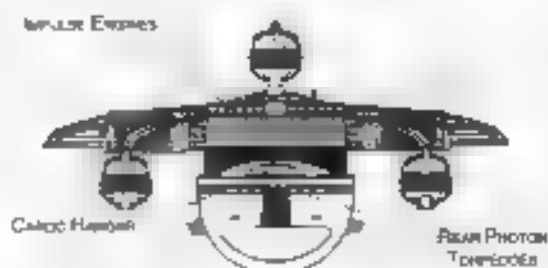
DREADNOUGHT



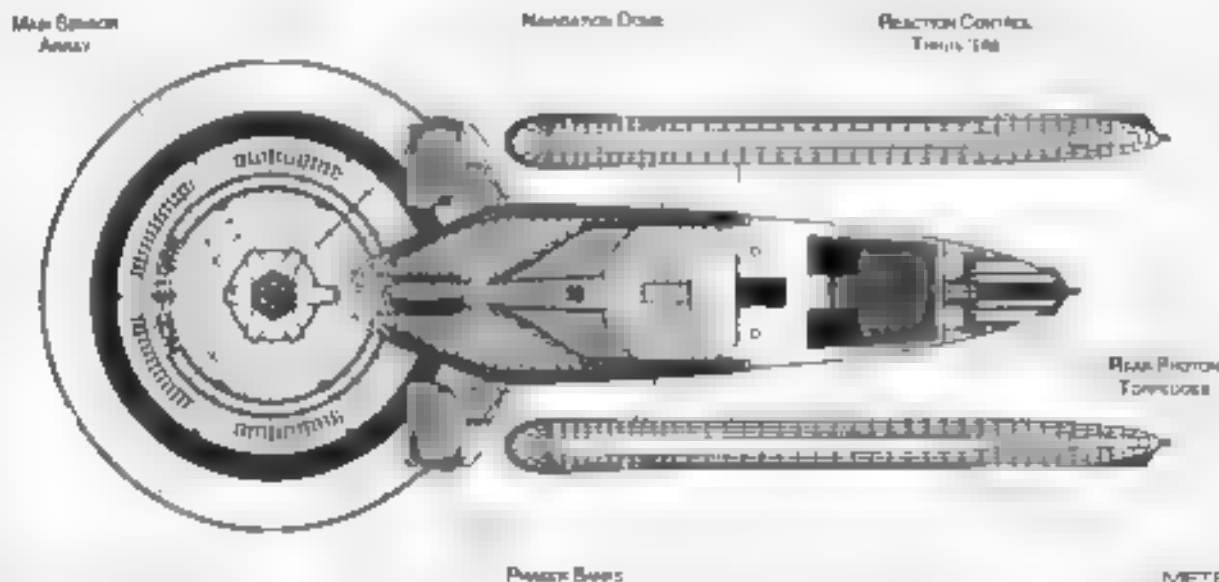
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





Ship Names

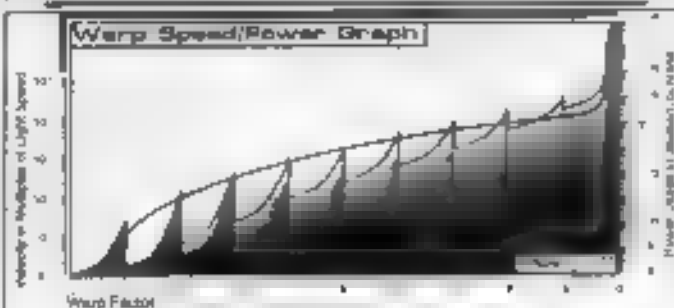
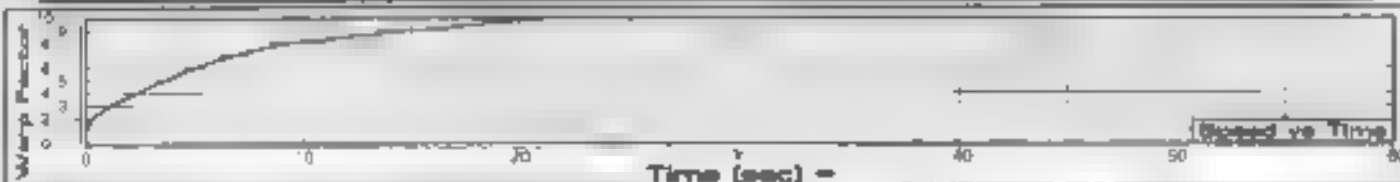
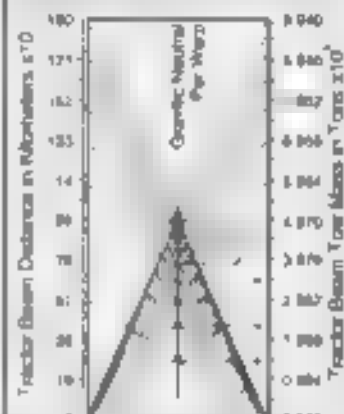
THE FOLLOWING SHIPS OF THE MK Xs CLASS WERE AUTHORIZED BY THE AMENDED ARTICLE OF FEDERATION OF STARDATE 88972

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CLASS 30-2. LOST IN THE LINE OF DUTY. "TERMINED. ALL NAMES ACCORDING WITH FILE

Tractor Beam Specifications

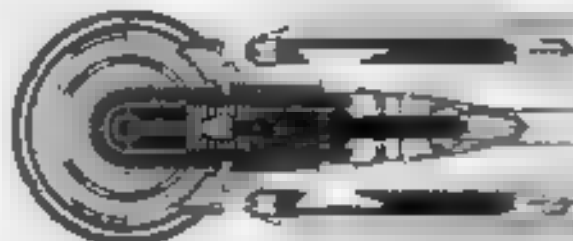
Primary Traction System Load Calculations



Field Length: 823.17m
Field Width: 279.89m
Field Volume: 138.27m



Front Warp Field Profile
Cross Section Area 53457.58 m²

Port Warp Field Profile
Cross Section Area 9557.30 m²

Top Warp Field Profile
Cross Section Area: 17837.6 cm²

WARP FIELDS

SRM3 04:02:02:04

STARFLEET REFERENCE MANUAL

NIGHTER CLASS

DEFINITION

HEAVY CRUISER



General Information

Specific Role: The Heavy Cruiser is a well armed, general purpose defense capable vessel. Built to replace the Enterprise class, the Excelsior maintains classic lines and similar duties in diplomacy and exploration.

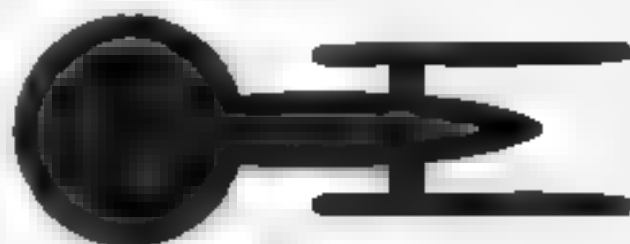
Physical Description: The TBS20/C (8) bridge is centered in top of the (PH290/C L5) primary hull and the TDS8, 6N navigation dome is centered underneath. Five (PH2/60-20) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (DI-190-48F) connecting dome, mates the primary hull to the (S125K/C L4) secondary hull. Two (PH2/50-20G) photon torpedo bays are located forward and aft and two (PH2/60-20) phaser banks are located above and below the hangar bay. Two banks of (DL1/40-C) phasers are mounted underneath as well. Just below the forward photon bay is the TDS1, A18i main navigation deflector. Just above the rear photon bay is a large cargo bay. A large hangar bay is located underneath the secondary hull. The (MHC-24-4F) interax chamber runs vertically from the deflection crystal down to the secondary hull where an ejector plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (GRF70E/8-IR) dual impulse unit located on the rear of the primary hull provides sublight propulsion. For warp propulsion two (SW-14-2-10KT) nacelles are supported by (DL-75-15F) support pylons mounted towards the rear of the secondary hull. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area: 84381.47 m²



Top Silhouette
Area: 44849.84 m²



Port Silhouette
Area: 12817.43 m²



Front Silhouette
Area: 8864.20 m²



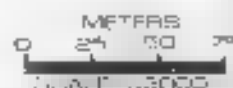
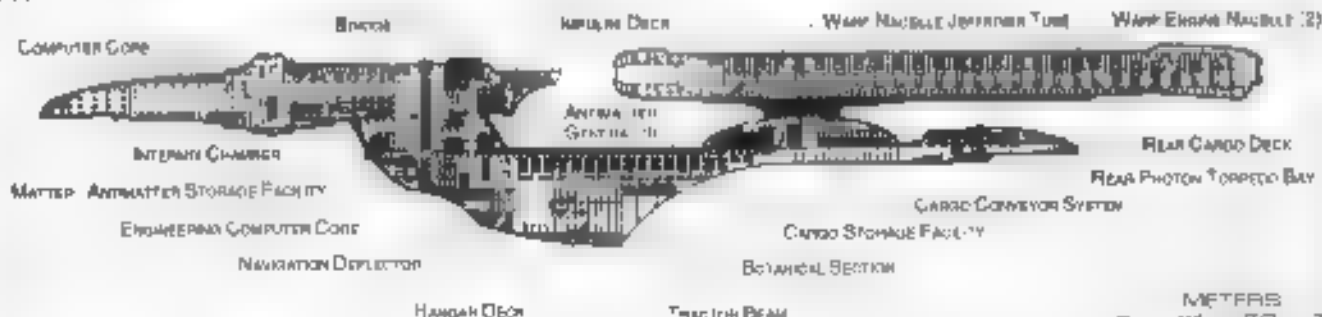
HEAVY CRUISER

EXCELSIOR CLASS

FEDERAL TYPE VESSEL



PORT PROFILE



CROSS SECTION

Statistics

Classification: Heavy Cruiser

Category: Cruiser

Class: Excelsior

Type: Class

Model: MK-Xc

Naval Construction Contract: 2000' 7000

Number Produced: 97

Number Constructed: 78

Number in Service: 74

Number Lost: 4

Dimensions:

Overall Dimensions (Meters)

Length: 46.05 m

Width: 77.2 m

Height: 14.93 m

Primary Hull Dimensions (Meters)

Length: 198.5 m

Width: 77.2 m

Height: 30.71 m

Secondary Hull Dimensions (Meters)

Length: 7.79 m

Width: 68.76 m

Height: 43.93 m

Warp Unit Dimensions (Meters)

Length: 24.06 m

Width: 17.43 m

Height: 20.33 m

Displacement (Metric Tons)

Light: 30975 m

Standard: 39500 m

Full Load: 44042 m

Performance: m

Impulse Units: Dual Unit (IRF70E/R)

Impulse Engine Output: 84E 14 W

Impulse Power Index: 00

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.18 sec

0.25-0.50 Impulse: 0.28 sec

0.50-0.75 Impulse: 0.78 sec

0.75-Full Impulse: 0.477 sec

Warp Units: 2 Nacelle Units (SW104Z-10AT)

Warp Engine Output: 104E+16 W

Warp Power Index: 00

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 8.5

Max Speed: 9.25

Destructive Speed: 9.5

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.20 sec

Warp 2 Warp 3: 0.322 sec

Warp 3 Warp 4: 1.2 sec

Warp 4 Warp 5: 7.40 sec

Warp 5 Warp 6: 1.870 sec

Warp 6 Warp 7: 2.02 sec

Warp 7 Warp 8: 2.584 sec

Warp 8 Warp 9: 3.710 sec

Warp 9 Warp 9.5: 5.245 sec

Warp 9.5 Warp 9.75: 6.552 sec

Warp 9.75 Warp 9.9: 10.807

Duration (Years)

Standard: 8 Years

Maximum: 24 Years

Ad. Ship Complement: 82

Officers: 11

Crew (Ensign Grade): 638

Troops: 52

Passengers: 60

Emergency condition: 4003

Medical Facilities:

Doctors: 4

Nurses: 20

Operating Rooms: 7

Beds: 47

Laboratories: 2

Transportation: 24

1 Person: 0

2 Person: 0

6 Person: 8

12 Person: 0

22 Person: 8

Special Cargo: 4

Medium Cargo: 4

Large Cargo: 0

Super Cargo: 0

Exit: 24

Reinforcements: 30

Tractor Beams:

Tom Capacity: 7.80E+06 m

Max Range: 1.77E+05 km

Cargo Specifications:

Standard Cargo Units: 900

Cargo Capacity: 45000 m

Shuttlecraft Specifications:

Docking Ports: 4

Shuttlecraft Bays Total:

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 35

Work Bays: 2

Travel Pods: 2

Aquatic Shuttle:

Light Shuttle:

Standard Shuttle: 0

Heavy Shuttle: 1

Cargo Shuttle:

Assault Shuttle: 5

Killer Bots: 1

Light Fighters: 4

Fighters: 4

Heavy Fighter: 3

Lifboats: 11

Turbolift (5 person): 40

Lifboat (10 person): 27

Lifboat (20 person): 1

Lifboat (30 person): 1

Cloaking Device: 0

Sensor Index Values:

Planetary Survey: 1000

Minel Survey: 0000

Short Range: 0000

Long Range: 0000

Navigation: 0000

Special: 0000

Computers: 2

Type: Daystrom Electronic IVc

Type: Daystrom Electronic IIIq

ECM Index: 00

Shield Rating:

Shield Index: 100

Holdoff Power: 13E+1 W

Refresh Rate: 3.20E+1 W

Breakdown Rate: 3.84E+1 W

Shield Dimensions (Meters)

Length: 700.58 m

Width: 285.82 m

Height: 2.40 m

Weapons:

Phase Power Index: 000

Photon Power Index: 1000

Vocal Power Index: 1000

Weapon Placement

Beam (Photon) Total: 18 paws 2 each

Output: 7.80E+11 W 3.7111 W

Range: 4.10E+05 km

Rate of Fire: 40 ppm Cont

Forward Banks: 4

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (MegaPhoton) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 4 Bays

Stock: 20

Range: 2.80E+05 km

Output: 10.55 Megajoules

Rate of Fire: 5 ppm

Forward Bay: 2

Rear Bay: 2

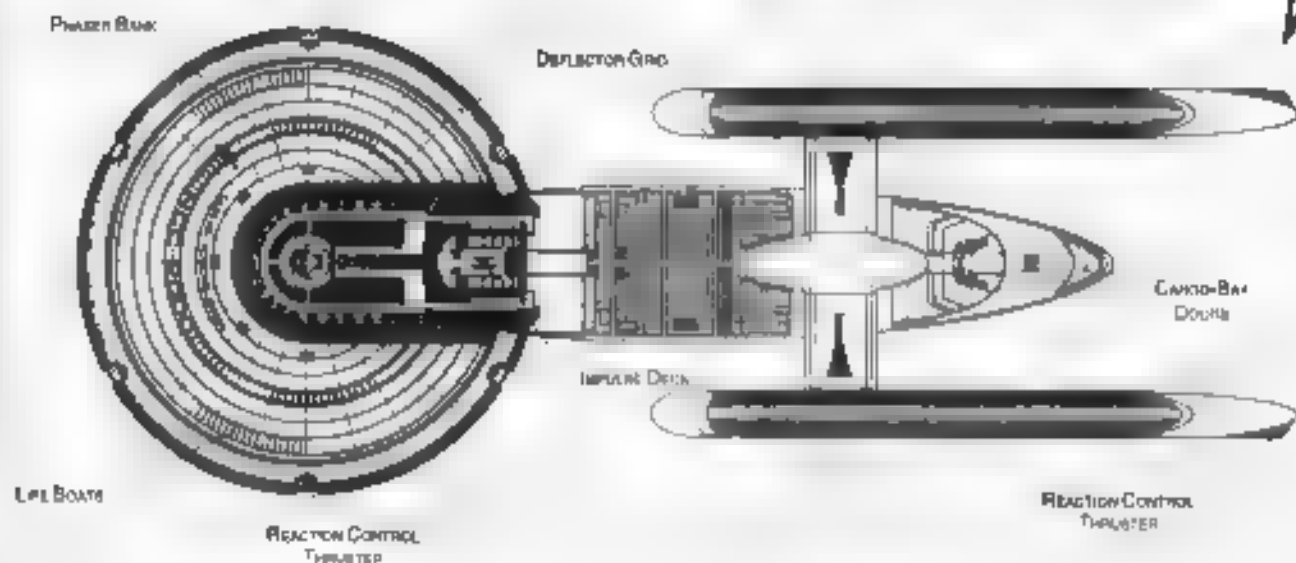
Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

HEAVY CRUISER



TOP PROFILE

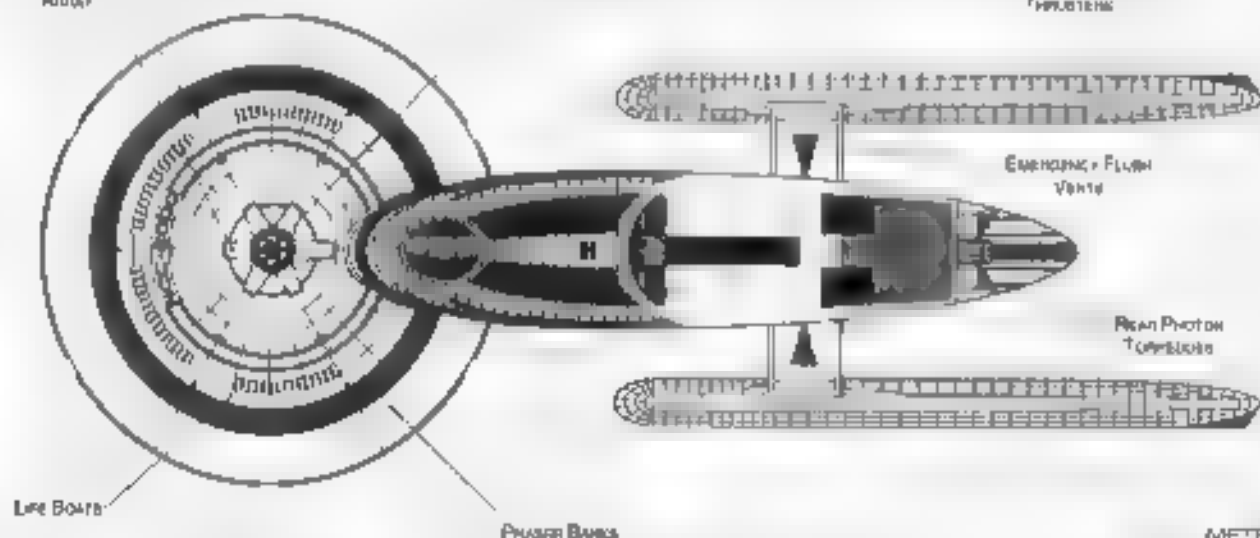


FRONT PROFILE

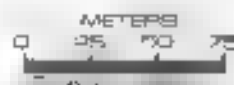
Main Sensor Array

Navigation Dome

Reaction Control Thrusters



BOTTOM PROFILE





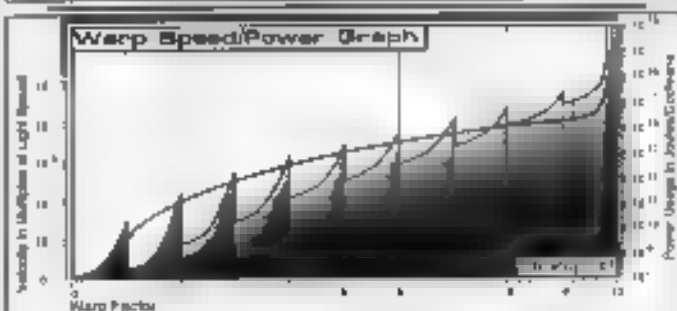
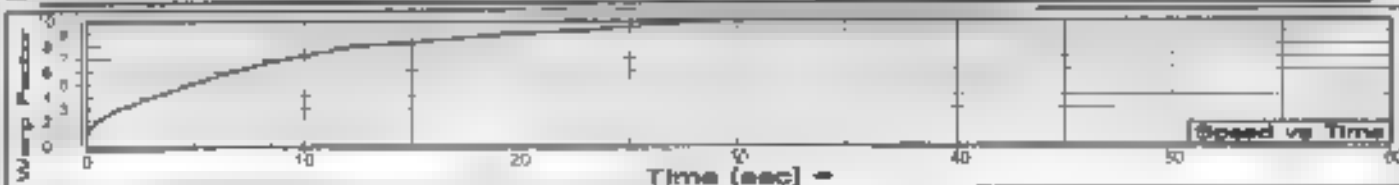
Ship Names

Tractor Beam Specifications

Primary Tractor Beam Load Calculator

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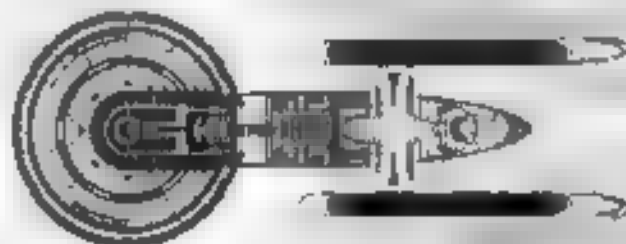
RELATIONSHIP. FIRST IN THE LINE OF DUTY. "PROPOSED. ALL NAMES PRECEDED WITH U.S.



Field Length 894.77m
Field Width 485.84m
Field Volume 127.05m



Front Warp Field Profile
Cross Section Area 25218.74 m²

Porto Wierp Field Profile
Cross Section Area 60567.78 m²

Top Warp Field Profile
Cross Section Area: 173953.65 m²

WARR FIELDS

SAME 04:02:03:04

STARFLEET REFERENCE MANUAL

HEAVY CRUISER



General Information

Specific Role: The Heavy Cruiser is a well armed, general purpose defense capable vessel. Built to replace the Enterprise class, the Excelsior class maintains classic lines and similar duties in diplomacy and exploration. Hull reinforcements on either side of the navigation deflector were added after a few prototypes experienced heavy damage in relatively light battles.

Physical Description: The (H320/C-UX) Bridge is centered on top of the (PH290/C-L5U) primary hull and the (DNH-6N) navigational dome is centered underneath. Five (SP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (D11/190-48F) connecting dorsal mates the primary hull to the (S-1258/C-L4U) secondary hull. Two (PI02-50-2aG) photon torpedo bays are located forward and aft and two (SP2/60-2C) phaser banks are located above and below the hangar bay. Two banks of (BP1/40-1C) plasma are mounted underneath as well. Just below the forward photon bay is the (DN10/A-8-2) main navigation deflector. Just above the rear photon bay is a large cargo bay. A large hangar bay is located underneath the secondary hull. The (M80-24-4E) intermax chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter and antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (I-3F70E-A-R) dual impulse drive is located on the rear of the primary hull to provide sub-light propulsion. Two additional hangar bays are located to either side of the impulse drive. For warp propulsion, two (SW104/2-12RJ) nacelles are supported by (DL/75-15F) support pylons mounted towards the rear of the secondary hull. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 98299.88 m²



Top Silhouette

Area 48184.27 m²



Port Silhouette

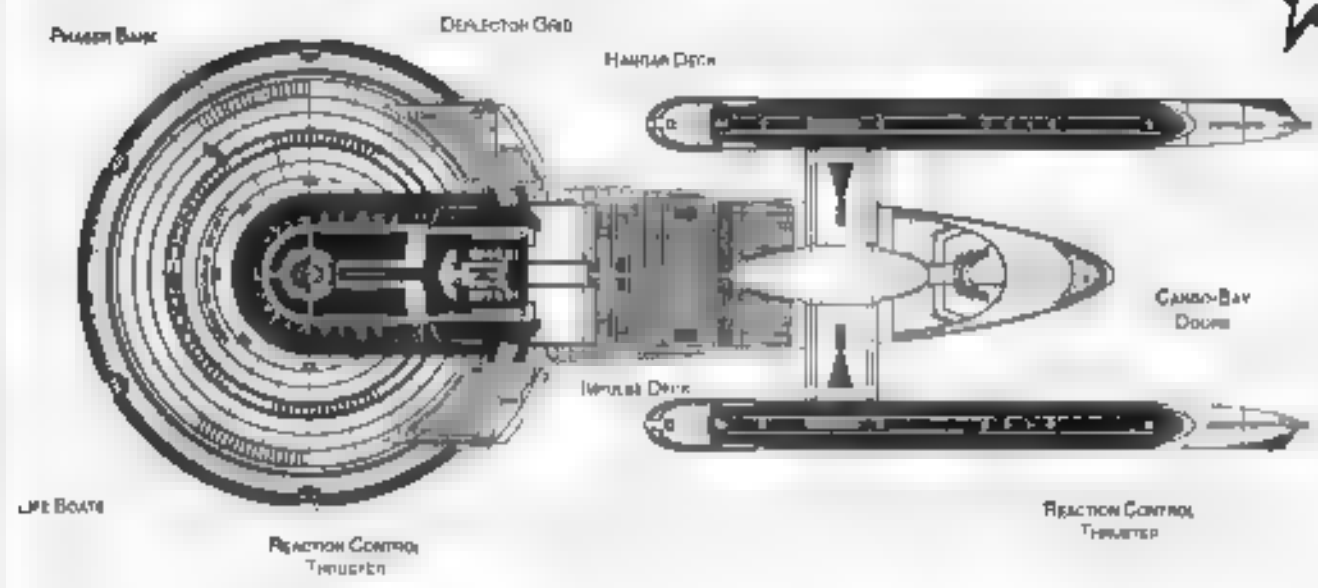
Area 18316.74 m²



Front Silhouette

Area 98299.88 m²

HEAVY CRUISER

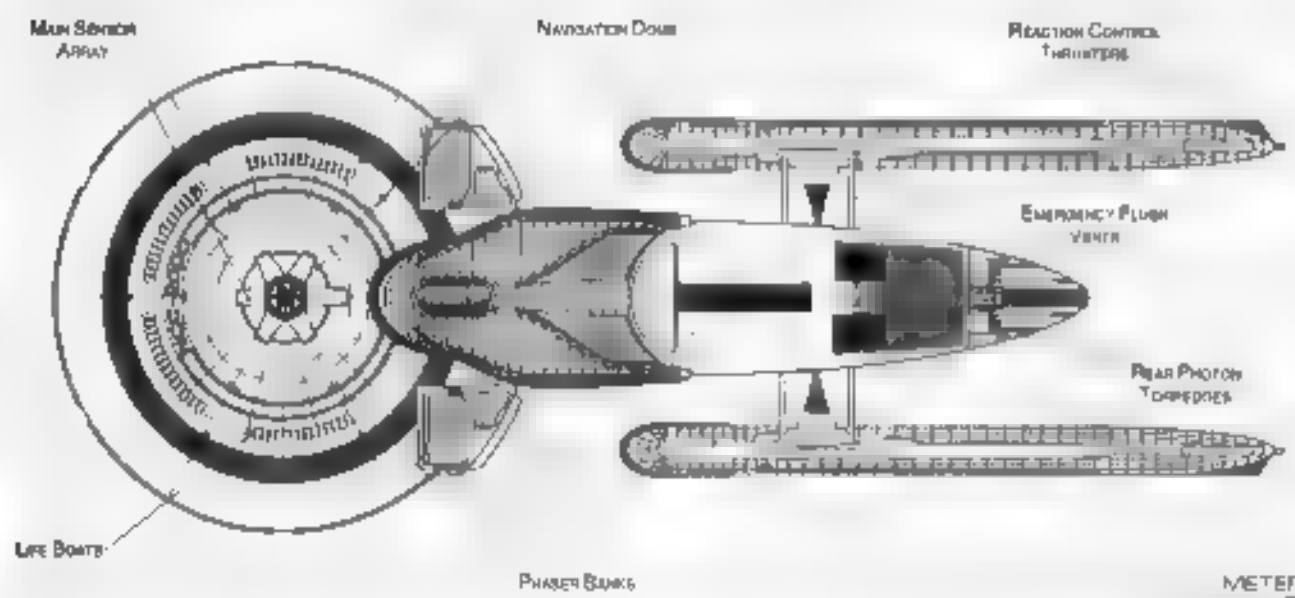


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE





Tractor Beam Specifications

Primary Factor Brown Load Calculator

[illegible]

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523</
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STARFLEET REFERENCE MANUAL

LIGHT CRUISER



General Information

Specific Role: The Light Cruiser is a lightly armed general purpose exploration vessel. This class starship is extremely maneuverable due to its high power to mass ratio. Other duties include system defense and commercial traffic patrol.

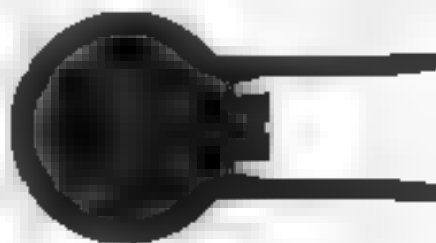
Physical Description: The BS20/C L8 bridge is centered on top of the (PH290/C 1.5) primary hull and the (DN8/6N) navigational dome is centered underneath. Five BP2/60-2C phaser banks are mounted radially on the top and six are mounted on bottom of the primary hull. A (PB2/50-20C) photon torpedo bay is mounted underneath the front of the hull. A medium hangar bay is located underneath the impulse engines. The (M55/28-2B) intermix chamber runs horizontally between the jefferies tubes however the core can be jettisoned through the deflection crystal in an emergency. The matter/anti-matter storage tanks are positioned for emergency jettisoning in front of the hangar bay. A (D703/6-1B) dual impulse unit is located in the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW104/2-2B) nacelles are mounted on (D1/70-2B) support pylons towards the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 48867.88 m²



Top Silhouette

Area 30892.70 m²



Port Silhouette

Area 7806.08 m²



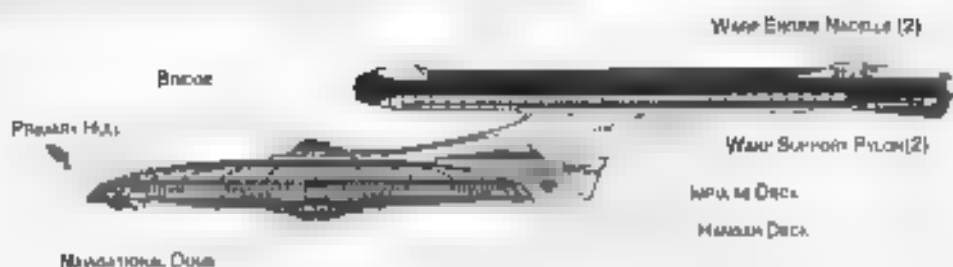
Front Silhouette

Area 2136.18 m²



LIGHT CRUISER

ROTHWELL CRUISER



Navigation Console

Bridge

Primary Hull

Warp Engine Nacelle (2)

Warp Support Pylon (2)

Upper Deck

Lower Deck

Warp Engine Nacelle (2)

Bridge

Computer Core

Warp Nacelle
Jetty/Trip Tube

Upper Deck

Photon Torpedo Tubes

Internal Cross-over
Chamber

Cargo Storage
Facility



CROSS SECTION

Statistics

Classification: Light Cruiser

Category: Cruiser

Class: Rothwell

Tractor Class:

Model: MK-XIIIb

Naval Construction Contract: 1407B

Number Proposed: 30

Number Constructed: 43

Number in Service: 40

Number Lost: 3

Dimensions:

Overall Dimensions (Meters):

Length: 333.48 m

Width: 177.21 m

Height: 58.10 m

Primary Hull Dimensions (Meters):

Length: 108.6 m

Width: 77.21 m

Height: 30.71 m

Secondary Hull Dimensions (Meters):

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters):

Length: 324.88 m

Width: 3.82 m

Height: 20.43 m

Displacement (Metric Tons):

Light: 14157 mt

Standard: 36483 mt

Full Load: 40732.7 mt

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 8.3

Max Speed: 9.5

Destructive Speed: 9.35

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.85 sec

Warp 2 Warp 3: 0.373 sec

Warp 3 Warp 4: 83 sec

Warp 4 Warp 5: 70 sec

Warp 5 Warp 6: 81.8 sec

Warp 6 Warp 7: 865 sec

Warp 7 Warp 8: 52 sec

Warp 8 Warp 9: 3.607 sec

Warp 9 Warp 9.5: 8.075 sec

Warp 9.5 Warp 9.75: 9.288 sec

Warp 9.75 Warp 9.9: 9.258

Survival (Years):

Standard: 11 Years

Maximum: 24 Years

Std. Ship Complement: 558

Officers: 37

Crew (Ensign Grade): 67

Troops: 10

Passengers: 83

2-mo. emergency condition: 1145

Medical Facilities:

Doctors: 5

Nurses: 15

Operating Rooms: 9

Beds: 42

Laboratories:

Diagnostics Total: 20

1 Person: 0

2 Person: 0

3 Person: 0

12 Person: 0

22 Person: 0

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

Bridge: 22

Engine Room: 28

Tractor Room:

Tow Capacity: 4.17E+06 mt

Max Range: 25E+03 km

Cargo Specification:

Standard Cargo Units: 500

Cargo Capacity: 2500 mt

Shuttlecraft Specifications:

Docking Ports:

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 36

Work Bays: 2

Travel Pods: 2

Aquatic Shuttle: 1

Light Shuttle: 4

Standard Shuttle: 6

Heavy Shuttle:

Cargo Shuttle: 1

Assault Shuttle: 0

Welder Bay: 1

Light Fighter: 4

Fighter: 4

Heavy Fighter: 3

Lifeboats: 40

Turbolift (10 person): 40

Lifeboat (10 person): 29

Lifeboat (20 person): 2

Lifeboat (30 person):

Cloaking Devices: 0

Range Index Value:

Planetary Survey: 0.9468

Stellar Survey: 0.9597

Short Range: 0.8584

Long Range: 0.9711

Navigation: 0.8880

Special: 0.9054

Comms: 1

Type: Daystrom Electronic IV n

Type: Daystrom Electronic III n

ECM Index: 0.98

Shield Rating:

Shield Index: 0.84

Shield Power: 0.05E+12 W

Refresh Rate: 3.00E+1 W

Breakdown Rate: 3.00E+1 W

Shield Dispense Rate (Meters):

Length: 500.24 m

Width: 285.82 m

Height: 87.5 m

Weapons:

Flak/AT Power Index: 0.750

Photon Power Index: 0.47

Vessel Power Index: 0.583

Weapon Placement:

Beam (Photon) Total: 2 banks 2 each

Output: 1.50E+11 W 37E W

Range: 4.10E+06 km

Rate of Fire: 40 ppm Com

Forward Banks: 2

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhoton) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 2 Bays

Stock: 00

Range: 2.90E+06 km

Output: 10.55 Megatons

Rate of Fire: 15 ppm

Forward Bay: 2

Rear Bay: 0

Port Bay: 0

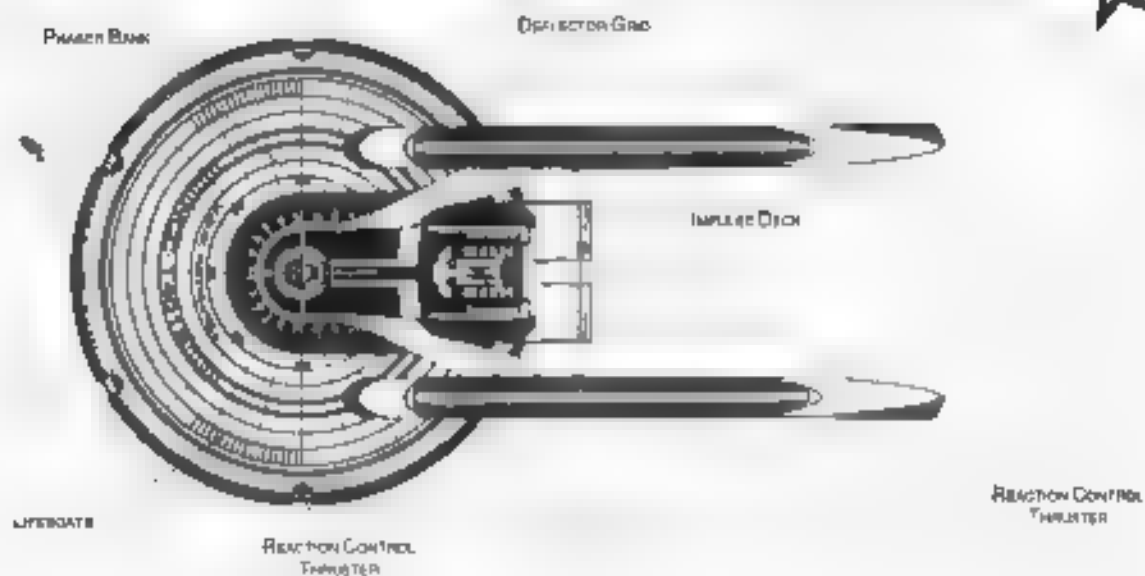
Starboard Bay: 0

Upper Bay: 0

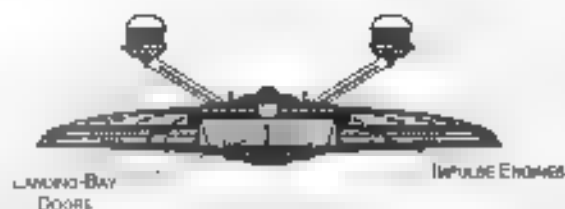
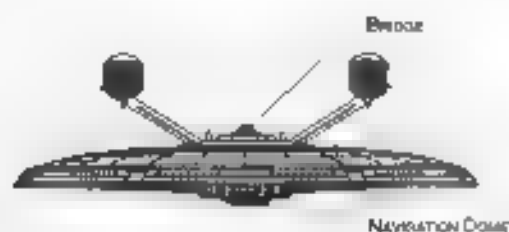
Lower Bay: 0

FEDERATION VESSEL

LIGHT CRUISER

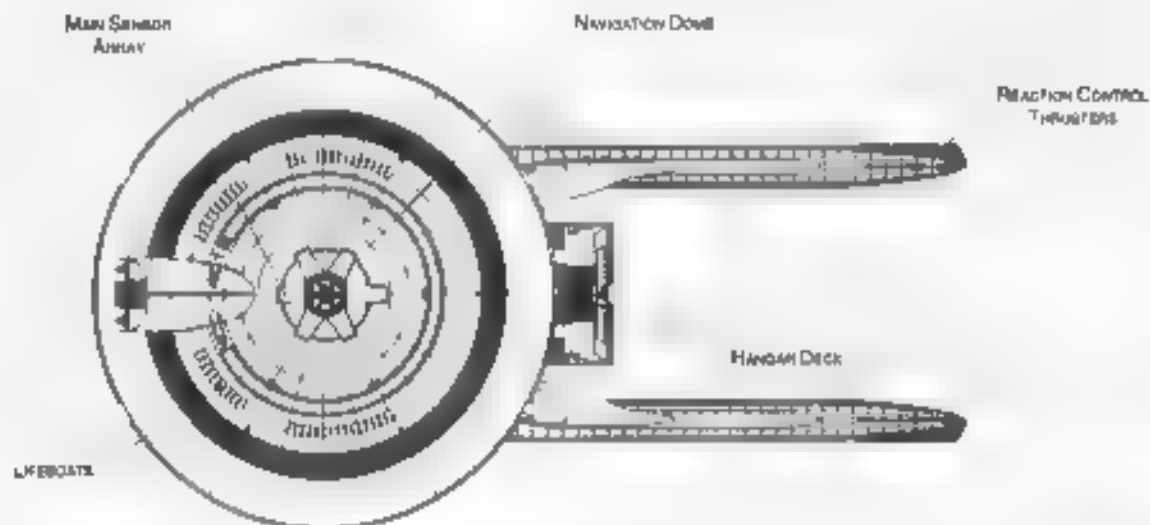


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE





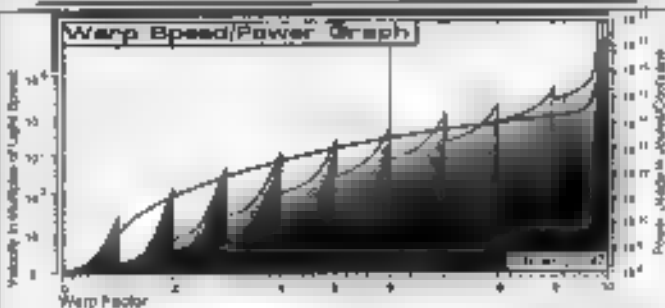
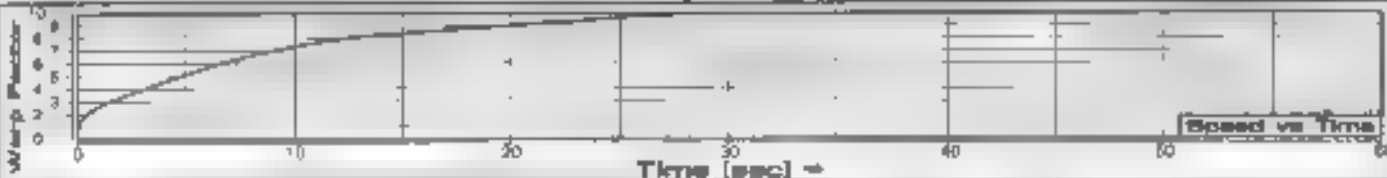
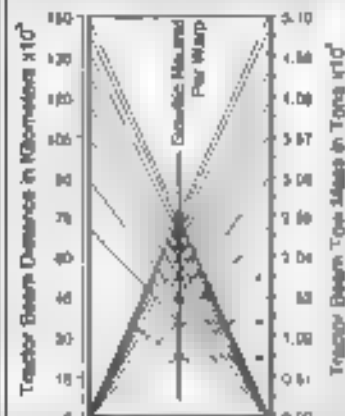
Ship Names

THE FOLLOWING SHIPS OF THE MK XIIth CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 8287.8

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Tractor Beam Specifications

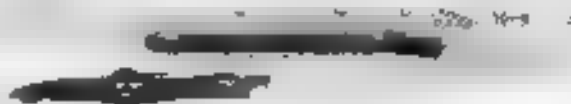
Primary Tractor Beam Load Calculator



Field Length 884.05m
Field Width 268.05m
Field Height 108.67m



Front Warp Field Profile
Gross Section Area 10000.44 m²

**Port Warp Field Profile**
 Cross Section Area 61711.87 m²

Top Warp Field Profile
Cross Section Area: 137988.00 m²

WARP FIELDS

SRM3 04:02:05:04

STARFLEET REFERENCE MANUAL

References

PERFORMANCE MEASURES

TACTICAL CRUISER



General Information

Specific Role: The Tactical Cruiser is an agile starship capable of massive destruction and is often used to display a show of force in troubled areas. It is equipped with extremely powerful shields and sensors as well as extensive ECM systems. During military operations the Tactical Cruiser is used for point assault and main line defense.

Physical Description: The (BS20/C T8) bridge is centered on top of the (PI 290/C E5) extended primary hull and the (JN5/6N) navigation dome is centered underneath. Five (TP2/60-2C) phaser banks are mounted equally on the top and bottom of the primary hull. A two piece integral (DU 210-44F) connecting dorsal makes the primary hull to the (SI 140/C T8) secondary hull. Two (PI12/50-20G) photon torpedo bays are located fore and aft and two (BP2/60-2C) phaser banks are located above and below the hangar bay. Two banks of (HP1/30-1C) phasers are mounted underneath as well. Just above the forward photon bay is a (TH5/2-40) tractor beam emitter and below is the (JN10/T18) main navigation deflector. Just above the rear photon bay is a large cargo hangar bay. The (M100/42-45) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (RP75T/8 IR) dual impulse drive is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW104/2-10KT) nacelles are supported by (DU 70-2T) support pylons mounted to the back of the secondary hull and a third warp nacelle on top is attached just forward of the main impulse drive by a (DU 50-12T) support pylon. In the event of an emergency the primary and secondary hulls can separate each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem

CURNOW CLASS



TACTICAL CRUISER

Ship Silhouettes

Total Target Area 66580.18 m²



Top Silhouette

Area 44999.95 m²



Port Silhouette

Area 19877.81 m²



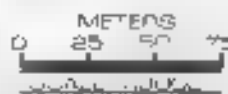
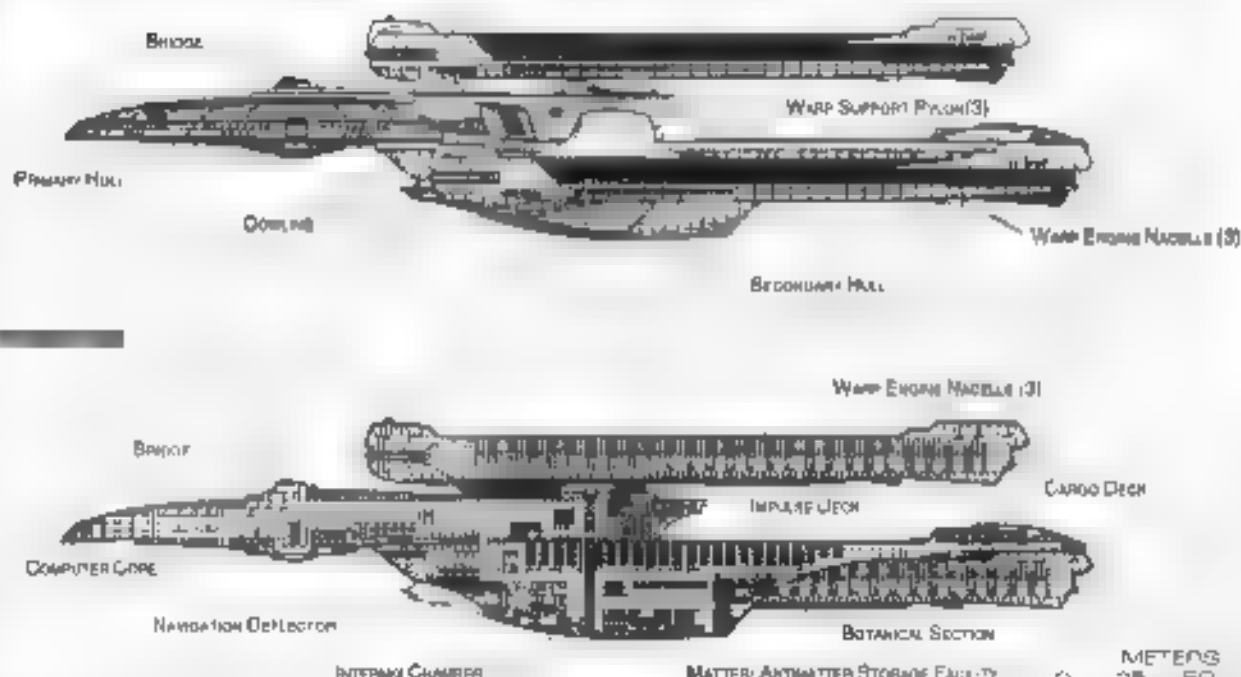
Front Silhouette

Area 9922.82 m²



TACTICAL CRUISER

CURNOW CLASS



CROSS SECTION

Statistics

Classification: Tactical Cruiser
Category: Cruiser
Class: Curnow
Type: Class
Model: MK XXXVII
Year Construction Completed: 7000B
Number Proposed: 5
Number Constructed: 80
Number in Service: 60
Number Lost:

Dimensions:

Overall Dimensions (Meters)

Length: 102.87 m
 Width: 37.2 m
 Height: 84.3 m

Primary Hull Dimensions (Meters)

Length: 24.06 m
 Width: 7.2 m
 Height: 30.7 m

Secondary Hull Dimensions (Meters)

Length: 27.79 m
 Width: 8.80 m
 Height: 43.93 m

Warp Unit Dimensions (Meters)

Length: 25.21 m
 Width: 19.89 m
 Height: 24.12 m

Displacement (Metric Tons)

Light: 444752 mt
 Standard: 478504 mt
 Full Load: 63 925 mt

Performance: 14

Impulse Units: Dual Unit (IMP/STG-14)

Impulse Engine Output: 80E+14 W

Impulse Power Index: 44

Max Cruising C:

Acceleration Rate:

0.00-0.25 Impulse: 0.2 4 sec
 0.25-0.50 Impulse: 0.336 sec
 0.50-0.75 Impulse: 0.440 sec
 0.75-Full Impulse: 0.56 sec

Warp Units: 2 Nacelle Units (SW104/2-10R)

Warp Engine Output: 80E+18 W

Warp Power Index: 44

Optimum Speed: 5
Max Safe Cruising: 7
Emergency Speed: 8.6
Max Speed: 8.95
Destructive Speed: 8.8
Acceleration Power: 3
Acceleration Times:
 Warp 1 Warp 2: 0 40 sec
 Warp 2 Warp 3: 0 224 sec
 Warp 3 Warp 4: 0 84 sec
 Warp 4 Warp 5: 2 17 sec
 Warp 5 Warp 6: 1 307 sec
 Warp 6 Warp 7: 4 08 sec
 Warp 7 Warp 8: 1 808 sec
 Warp 8 Warp 9: 2 582 sec
 Warp 9 Warp 10: 5 sec
 Warp 10 Warp 11: 8 640 sec
 Warp 11 Warp 12: 3 720

Shuttlecraft (Yacht)

Standard: 6 Yacht

Maximum: 24 Yacht

Std. Ships (Commissioned): 1000

Officers: 18

Crew (Ensign Grade): 780

Troops: 10

Passengers: 48

Emergency conditions: + 383

Medical Facilities:

Doctors: 12

Nurses: 27

Operating Rooms: 8

Beds: 63

Laboratories: 34

Transporters Total: 34

1 Person: 0

2 Person: 0

6 Person: 10

12 Person: 0

22 Person: 10

Small Cargo: 7

Medium Cargo: 7

Large Cargo: 0

Super Cargo: 0

Bridge: 56

Replicators: 80

Tractor Beams:

Tow Capacity: 8 00E+08 mt

Max Range: 1 65E 06 km

Cargo Specifications:

Standard Cargo Units: 1252

Cargo Capacity: 62000 mt

Shuttlecraft Specifications:

Docking Ports: 2

Shuttlecraft Bays Total: 2

Small Bay: 0

Medium Bay: 2

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 78

Work Room: 5

Travel Pods: 5

Aquatic Shuttle: 2

Light Shuttle: 2

Standard Shuttle: 18

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 8

Killer Boats:

Light Fighter: 10

Fighter: 11

Heavy Fighter: 7

Lifboats: 10

Turbolift (8 person): 48

Lifboat (10 person): 10

Lifboat (20 person): 13

Lifboat (30 person): 7

Clothing Devices: 0

Spacel Index Values:

Planetary Survey: 8016

Stellar Survey: 3200

Short Range: 1 4500

Long Range: 2000

Navigation: 2 58

Special: 2 8388

Comments: 2

Type: Daystrom Diode/ionic IVp

Type: Daystrom Diode/ionic III m

ECM Index: 1 21

Shield Rating:

Shield Index: 33

Shield Power: 38E+12 W

Refresh Rate: 3.02E+1 W

Breakdown Rate: 4 71E+11 W

Shield Dimensions (Meters)

Length: 588.3 m

Width: 263.82 m

Height: 128.47 m

Weapons:

Phase Power Index: 000

Photon Power Index: 1 887

Vessel Power Index: 333

Weapon Placement:

Beam (Phasers) Total: 8 banks 2 each

Output: 7 40F W 3 7E W

Range: 4 10E+15 m

Rate of Fire: 40 ppm Cons

Forward Banks: 4

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (Megaphasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 4 Bays

Stock: 200

Range: 2 90E+08 km

Output: 0.55 Megatons

Rate of Fire: 15 ppm

Forward Bay: 2

Rear Bay: 2

Port Bay: 0

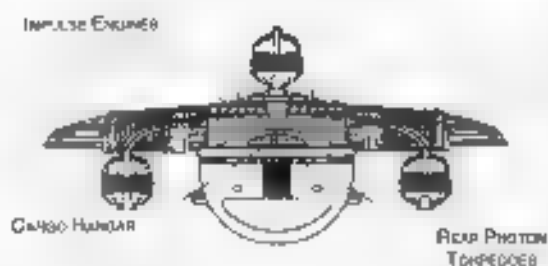
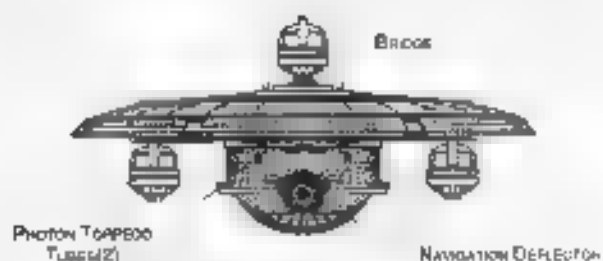
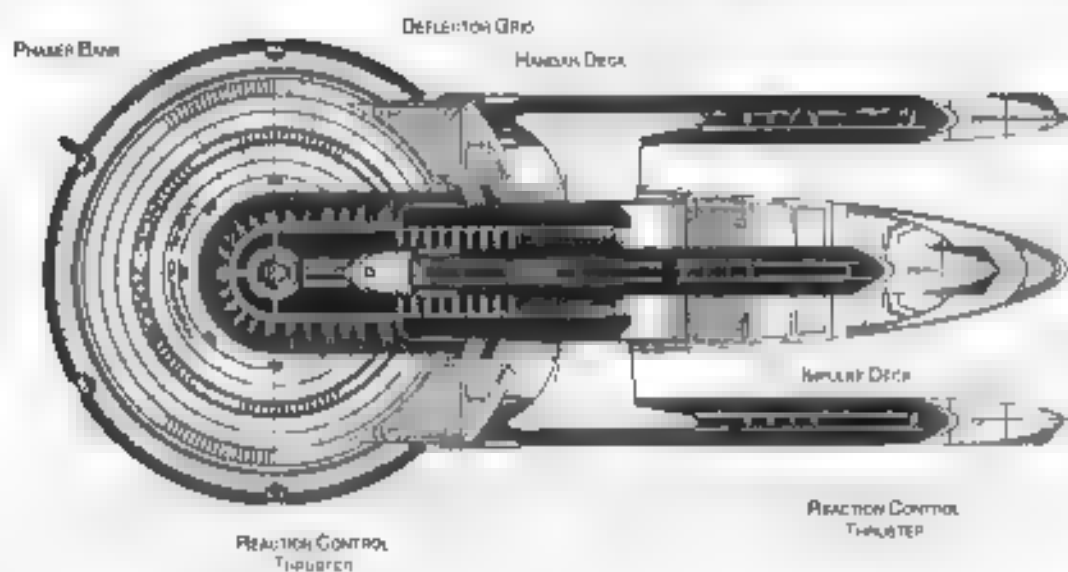
Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

FEDERATION WEBSITE

TACTICAL CRUISER



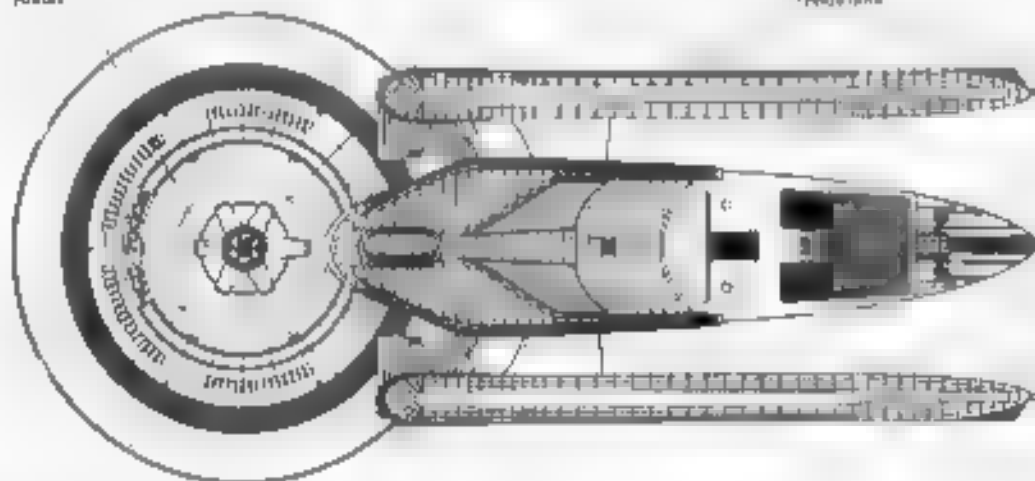
FRONT PROFILE

REAR PROFILE

MAIN SENSOR
ARRAY

NAVIGATION DOME

REACTION CONTROL
THRUSTERS



BOTTOM PROFILE

PHASER BANKS

METERS
0 25 50 75
SCALE 1:30,000

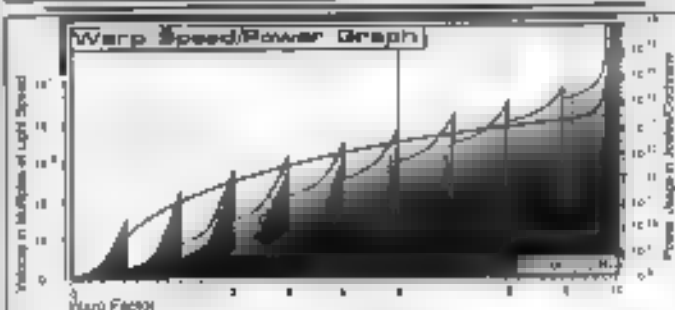
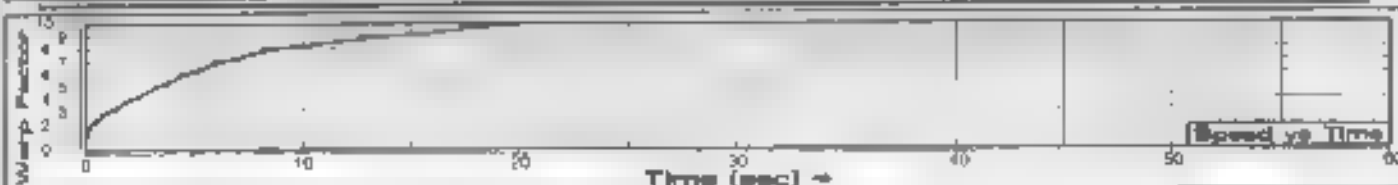


CURANDOW CLASS

Tractor Beam Specifications

[illegible]

'CLARE REP. LOST IN THE LINE OF DUTY. 'THROTTLED' ALL NAMES PREFIXED WITH 'LAW'

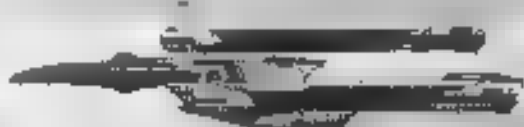


Field Length: 827.00mm
Field Width: 276.30mm
Field Height: 100.00mm



Front Warp Field Profile

From Section Area 01121.50 m²

Port Warp Field Profile
 Cross Section Area 8000.00 m²

Top Warp Field Profile
Cross Section Area 185564.88 m²

WARP FIELDS

SRM3 04:02:06:04

STAFFLEET REFERENCE MANUAL

FEDERATION VESSEL

THROUGH DECK CRUISER



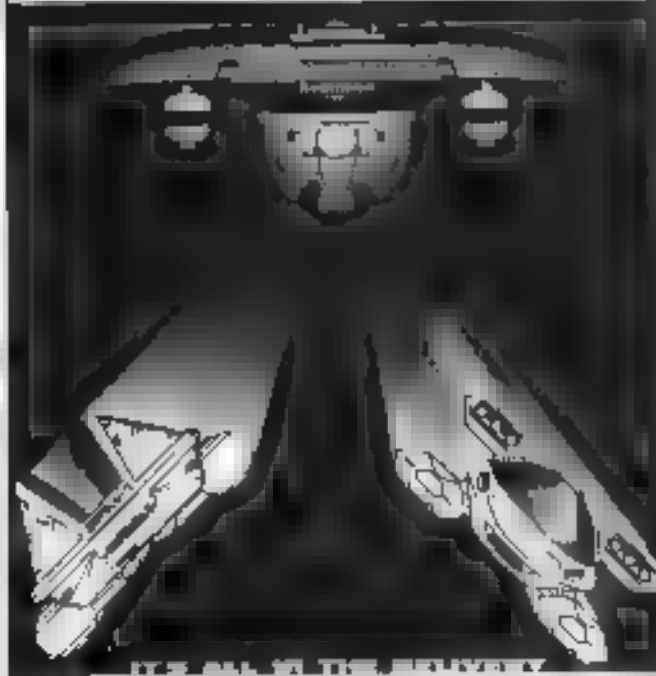
General Information

Specific Role: The Through Deck Cruiser carries six on-plate fighter wings and several other assault craft. Although lightly armed, it's support craft can handle planetary assault, system defense and ship to ship combat. This vessel usually patrols treaty boundaries and shipping lanes.

Physical Description: The TDS20/C-NB bridge is centered on top of the IPM310/C-C5 extended primary hull and the DNM3/0N1 navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. A two piece integral (LJ/200-44P) connecting dorsal mates the primary hull to the SL5/0/C-041 secondary hull. Two (P42-50-20G) photon torpedo bays are located for and aft and two (SP2-60-2C) phaser banks are located above and below the hangar bay. Two banks of (DP1/30-2C) phasers are located underneath as well. Between the forward photon tubes is the DN10/A-8 main navigation deflector. Just above the rear photon bay is a large cargo bay. The secondary hull contains a unique hull over fighter bay with doors on all four sides and one door hanging down. The (MBC/28-4K) armor is placed over the vertically from the deflection crystal down to the secondary hull, however the core can be jettisoned through the deflection crystal in an emergency. The matter/antimatter storage tanks are positioned for emergency ejection at the rear of the primary hull. A (TRF70E/4-K) deuterium pulse reactor is located in the rear of the primary hull provides sub light propulsion. For warp propulsion two (SW-04-2-12K1) nacelles are supported by (DL/70-120) support pylons mounted to the back of the secondary hull. In the event of an emergency the primary and secondary hulls can separate, each being able to carry the ships complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

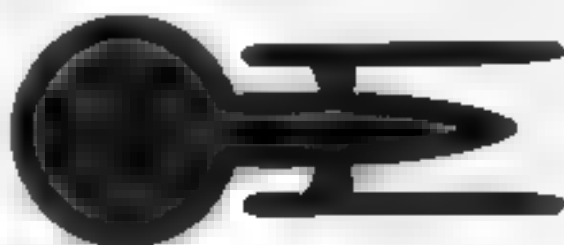
Class Emblem

C E MENCEAU CLASS



Ship Silhouettes

Total Target Area 64319.51 m²



Top Silhouette

Area 44168.97 m²



Port Silhouette

Area 14488.18 m²



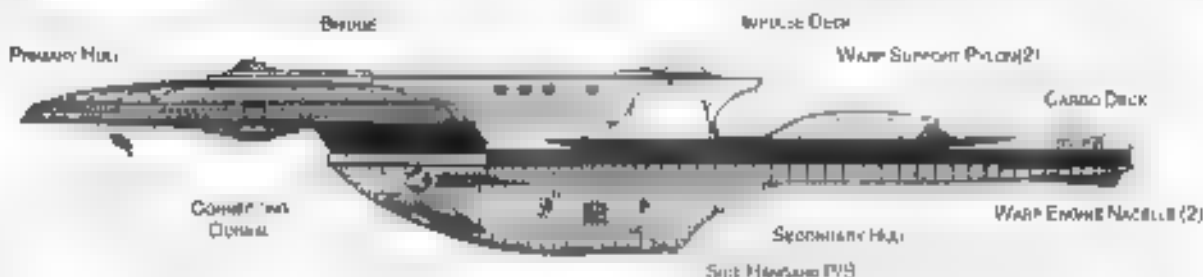
Front Silhouette

Area 6719.88 m²

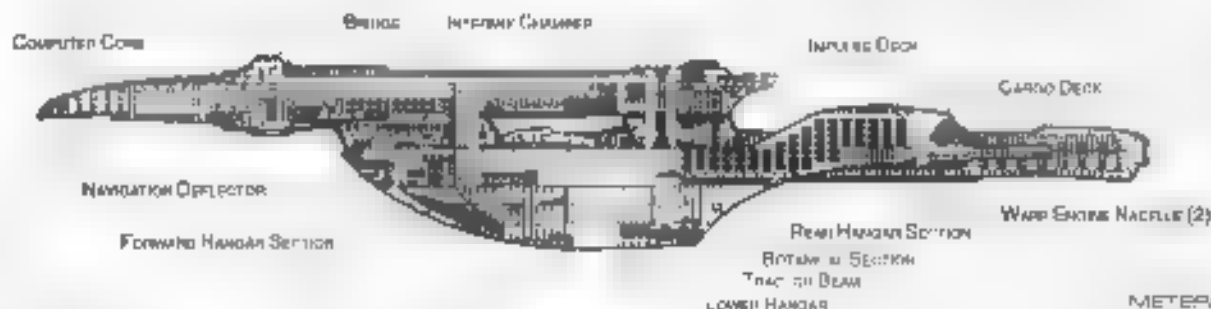


THROUGH DECK CRUISER

FEDERATION CLASS



PORT PROFILE



CROSS SECTION



Statistics

Classification: Through Deck Cruiser
Category: Carrier
Class: Federation
Type: Class
Model: MK-XXR

Naval Construction Contract: 1977B

Number Proposed: 35

Number Constructed: 38

Number in Service: 34

Number Lost:

Dimensions

Overall Dimensions (Meters)

Length: 424.06 m

Width: 177.2 m

Height: 73.81 m

Primary Hull Dimensions (Meters)

Length: 287.5 m

Width: 177.8 m

Height: 50.71 m

Secondary Hull Dimensions (Meters)

Length: 270.74 m

Width: 59.85 m

Height: 14.27 m

Warp Unit Dimensions (Meters)

Length: 247.06 m

Width: 7.70 m

Height: 20.73 m

Displacement (Metric Tons)

Light: 4150.0 m

Standard: 44087 m

Full Load: 406028 m

Performance:

Impulse Units: Dual Unit (IRF706/8-1R)

Impulse Engine Output: 84E+14 W

Impulse Power Index: 0.85

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.206 sec

0.25-0.50 Impulse: 0.323 sec

0.50-0.75 Impulse: 0.431 sec

0.75-Full Impulse: 0.539 sec

Warp Unit: 2 Nuclei Units (BNY104/2-12R)

Warp Engine Output: 04E+18 W

Options: Speed: 5
Max Safe Cruising: 7
Emergency Speed: 8.3
Max Speed: 9.5
Destructive Speed: 8.05

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.227 sec

Warp 2 Warp 3: 0.364 sec

Warp 3 Warp 4: 0.75 sec

Warp 4 Warp 5: 0.976 sec

Warp 5 Warp 6: 2.4 sec

Warp 6 Warp 7: 2.285 sec

Warp 7 Warp 8: 2.933 sec

Warp 8 Warp 9: 4.195 sec

Warp 9 Warp 10: 9.32 sec

Warp 10 Warp 11: 0.700 sec

Warp 11 Warp 12: 22.303 sec

Duration (Years)

Standard: 11 Years

Maximum: 24 Years

Std. Ship Complement: 1092

Officer: 100

Crew (Ensign Grade): 814

Troops: 0

Passengers: 120

Emergency condition: + 1417

Medical Facilities:

Doctors: 4

Nurses: 27

Operating Rooms: 8

Beds: 63

Laboratories: 16

Transports: Total: 27

1 Person: 0

2 Person: 0

3 Person: 0

12 Person: 0

22 Person: 10

Small Cargo: 4

Medium Cargo: 3

Large Cargo: 0

Super Cargo: 0

Brigs: 4
Replicators: 34
Tactical Decks:
Tow Capacity: 8.8E+06 m
Max Range: 7.2E+04 km

Cargo Specifications:

Standard Cargo Bays: 838

Cargo Capacity: 45900 m

Shuttlecraft Specifications:

Docking Ports: 8

Shuttlecraft Bays Total: 3

Small Bay: 0

Medium Bay: 0

Large Bay: 2

Super Bay: 0

Shuttlecraft Standard: 28

Work Bays: 8

Travel Pods: 7

Aquatic Shuttle: 5

Light Shuttle: 4

Standard Shuttle: 26

Heavy Shuttle: 5

Cargo Shuttle: 4

Assault Shuttle: 8

Killer Bays: 4

Light Fighter: 4

Fighter: 14

Heavy Fighter: 12

Lifeboats: 14

Turbolift (8 person): 31

Lifeboat (10 person): 23

Lifeboat (20 person): 10

Lifeboat (30 person): 1

Cloaking Devices: 6

Sensor Index Values:

Planetary Survey: 0.8670

Minial Survey: 0.8608

Short Range: 0.9534

Long Range: 0.8754

Navigation: 1108

Speed: 9397

Computers: 2

Type: Daystrom Duotronic IV.4

Type: Daystrom Duotronic III.6

ECM Index: 1.12

Shield Rating:

Shield Index: 80

Shieldoff Power: 80E+2 W

Refresh Rate: 5.11E+1 W

Breakdown Rate: 5.3E+11 W

Shield Dimensions (Meters)

Length: 606.98 m

Width: 265.82 m

Height: 110.72 m

Weapons:

Phase Power Index: 000

Photon Power Index: 0.667

Vessel Power Index: 0.833

Weapon Placement

Beam (Phasers) Total: 16 banks 2 each

Output: 7.50E+1 W 3.7E W

Range: 4.10E+06 km

Rate of Fire: 40 ppm Cont

Forward Banks: 4

Rear Banks: 2

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 2

Beam (Missiles) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Phasers) Total: 4 Bays

Stock: 80

Range: 3.80E+05 km

Output: 10-55 Megatons

Rate of Fire: 5 spm

Forward Bays: 2

Rear Bay: 2

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

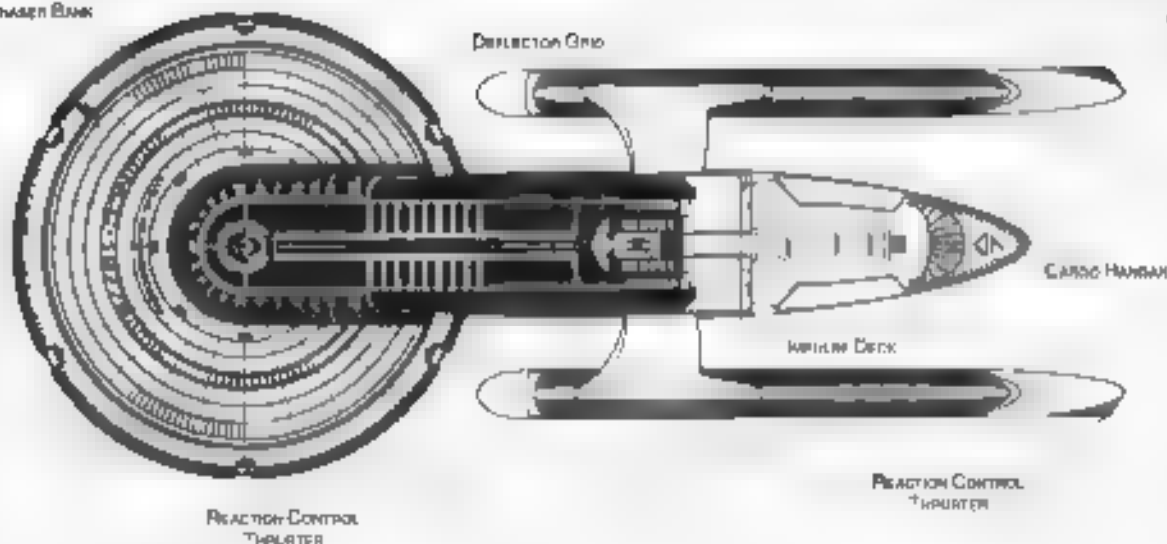
FEDERATION CLASS

THROUGH DECK CRUISER



PHASER BANK

DEFLECTION GRID



TOP PROFILE

BRIDGE

IMPULSE ENGINES



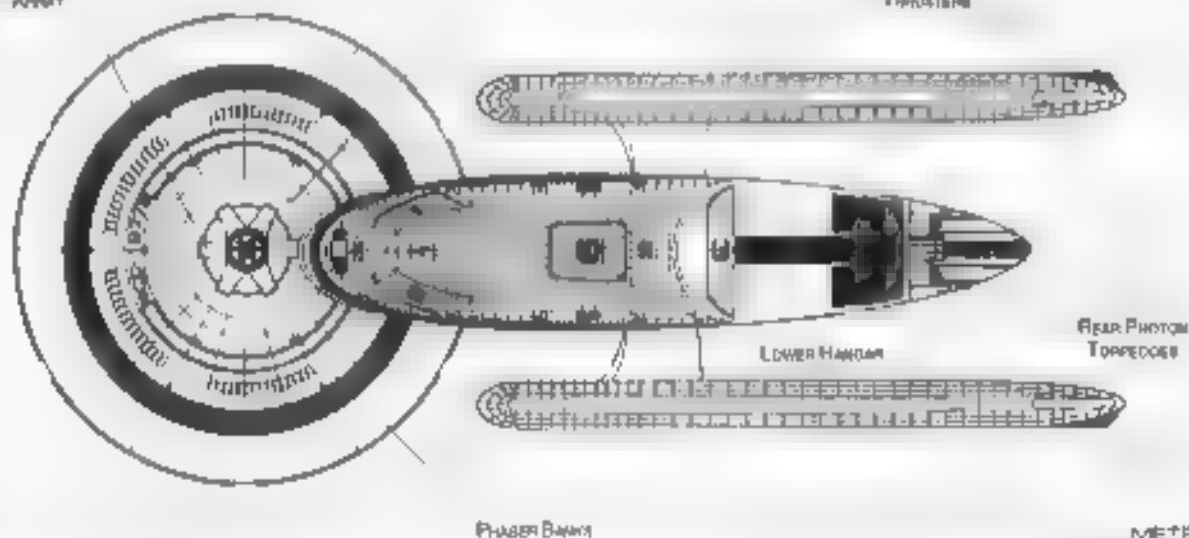
FRONT PROFILE

REAR PROFILE

MAIN SENSOR ARRAY

NAVIGATION DOME

REACTION CONTROL THRUSTERS



BOTTOM PROFILE





Ship Names

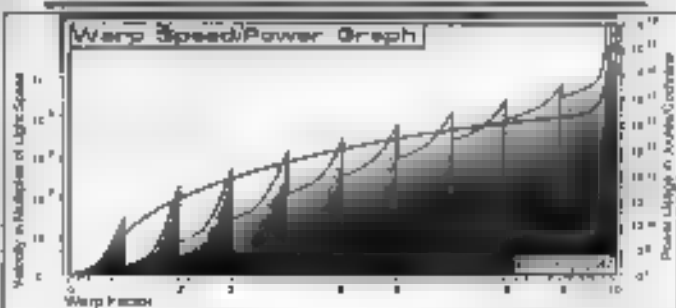
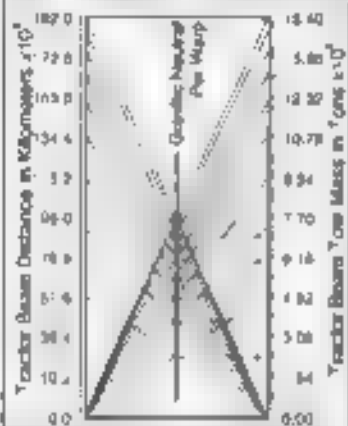
THE FOLLOWING SHIPS OF THE MK XXII¹ CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2888.1

[illegible]

CLARK, RAY, LOST IN THE LINE OF DUTY, PROGRAMED. ALL NAMES PROGRAMED WITH U.S.A.

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



Field Length 885.11m
Field Width 275.34m
Field Height 132.73m



Front Warp Field Profile
Cross Section Area 25,392.00 m²

Port Warp Field Profile
Cross Section Area 78741.13 m²

Top Warp Field Profile
Gross Section Area 153557.50 m²

WARP FIELDS

SAM3 04:02:07:04

STAFFLEET REFERENCE MANUAL

CLEMENCEAU CLASS

FEDERATION VESSEL

DESTROYER



General Information

Specific Role: The Loki class destroyer with a small subcortice is an effective fighting ship. The combination of several mega phasers coupled with a high density dual warp engine system make this vessel quite ferocious. During military operations, the Destroyer is used for point assault and hit and run defense. This design is based on the Jush-in Class Command Cruiser.

Physical Description: The (BS18 C DR) bridge is centered on top of the (P1250, D-L5) primary hull and the (DN8 EN) navigation dome is centered underneath. The vessel is equipped with additional sensors, hull reinforcements and a medium hangar deck facing to the rear. Three (MP2/80-20) phaser banks are mounted radially on the top and bottom of the primary hull. A pair of (MP2/80-20) mega phasers are mounted on top of the hangar bay and one is mounted on the rear of warp nacelle. The primary hull is joined to the unique dual warp nacelle by a (D-1/80-40) connecting dome. Two (P12/50-200) photon torpedo launchers are located at the base of the connecting dome. The (M70/28-4E) intermix chamber runs vertically from the bottom of the dome down to the dual warp nacelle where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned between the field coils for emergency jettisoning. To the rear of the primary hull are (P212b/4 IT) dual impulse thrusters which are used for auxiliary power and sub-light propulsion. The vessel's warp fields are generated by A-SW64, 1-4RU dual inline warp nacelles. In the event of an emergency the primary hull can separate from the warp nacelle section. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area: 38185.38 m²



Top Silhouette

Area: 28140.38 m²



Port Silhouette

Area: 10048.81 m²



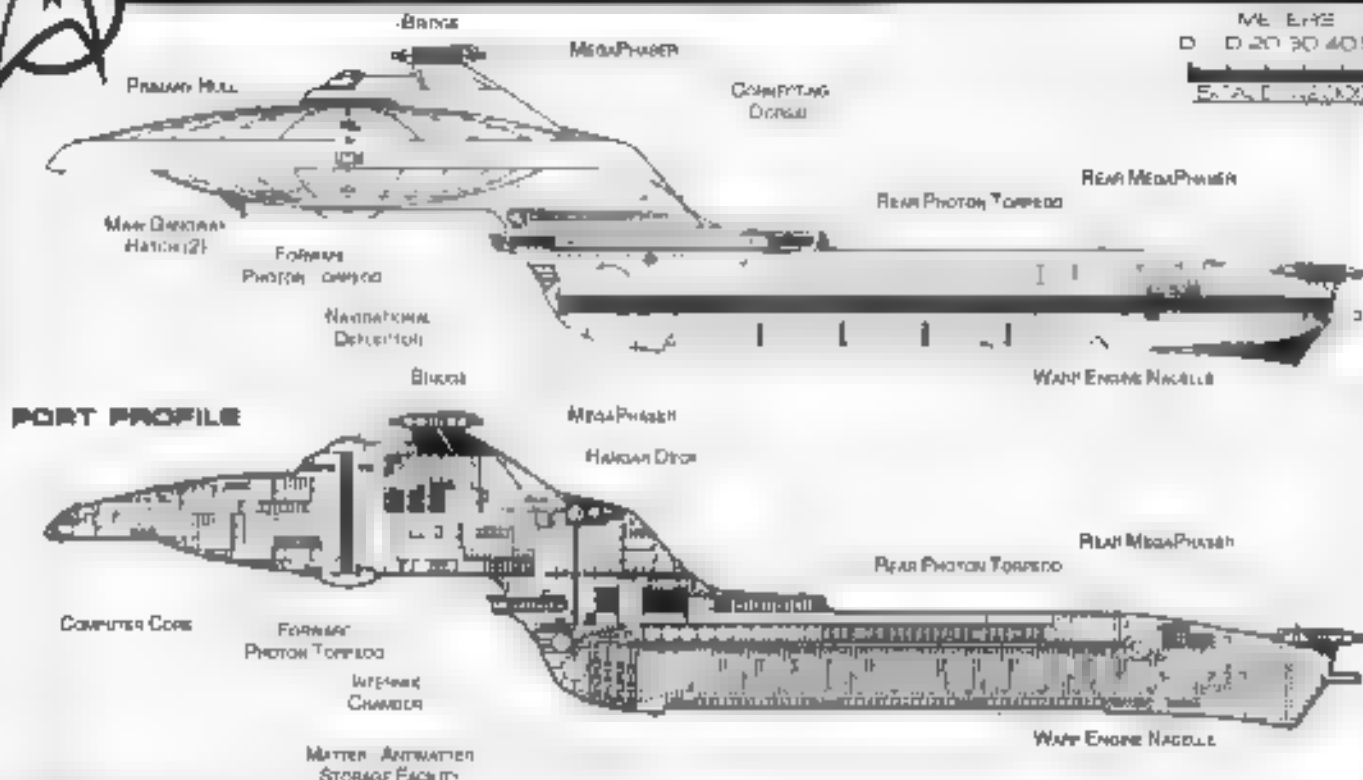
Front Silhouette

Area: 1020.22 m²



DESTROYER

LOKI CLASS



CROSS SECTION

Statistics

Classification: Destroyer

Category: Destroyer

Class: Loka

Type: Ship

Model: MK-VIII

Mass Construction Contract: 5028

Number Produced: 93

Number Constructed: 78

Number in Service: 7

Number Lost: 0

Dimensions:

Overall Dimensions (Meters)

Length: 94.26 m

Width: 59.20 m

Height: 23.30 m

Primary Hull Dimensions (Meters)

Length: 170.82 m

Width: 54.20 m

Height: 10.28 m

Secondary Hull Dimensions (Meters)

Length: 94.26 m

Width: 54.20 m

Height: 23.30 m

Warp Unit Dimensions (Meters)

Length: 2.112 m

Width: 1.112 m

Height: 28.11 m

Displacement (Metric Tons)

Light: 2,345,111 mt

Standard: 2,491,781 mt

Full Load: 2,781,831 mt

Performance:

Impulse Delta: Dual Unit (IP2) 22M-7

Impulse Engine Output: 84E+14 W

Impulse Power Index: 39

Max Cruising: 6

Acceleration Rate:

0.00-0.25 Impulse: 0.4 sec

0.25-0.50 Impulse: 0.80 sec

0.50-0.75 Impulse: 0.240 sec

0.75-Full Impulse: 0.30 sec

Warp Units: Nacelle Infs (SW6-17-4R)

Warp Engine Output: 8.07E+5 W

Warp Power Index: 39

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 0.45

Max Speed: 12

Destructive Speed: 0.45

Acceleration Power: 3

Acceleration Time:

Warp 1 Warp 2: 0.145 sec

Warp 2 Warp 3: 0.232 sec

Warp 3 Warp 4: 0.877 sec

Warp 4 Warp 5: 28 sec

Warp 5 Warp 6: 1.348 sec

Warp 6 Warp 7: 1.457 sec

Warp 7 Warp 8: 1.870 sec

Warp 8 Warp 9: 2.874 sec

Warp 9 Warp 10: 5.043 sec

Warp 10 Warp 11: 5.885 sec

Warp 11 Warp 12: 4.277 sec

Duration (Years)

Standard: 5 Years

Maximum: 20 Years

Std. Ship Complement: 660

Officers: 50

Crew (Ensign Grade): 460

Troops: 20

Passengers: 57

Emergency condition: +740

Medical Facilities:

Doctors: 8

Nurses: 4

Operating Rooms: 5

Beds: 14

Laboratories: 10

Transporters: 13

1 Person: 0

2 Person: 0

3 Person: 5

4 Person: 0

5 Person: 5

Small Cargo: 2

Medium Cargo:

Large Cargo: 0

Super Cargo: 0

Bridge: 27

Replicators: 8

Internal Beams:

Tow Capacity: 4.25E+05 mt

Max Range: 08E+05 km

Cargo Specifications:

Standard Cargo Units: 38

Cargo Capacity: 5800 mt

Shuttlecraft Specifications:

Decking Force:

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 32

Work Boats: 4

Troop Pods: 2

Aquatic Shuttle:

Light Shuttle: 1

Standard Shuttle: 8

Heavy Shuttle: 4

Cargo Shuttle:

Assault Shuttle: 2

Killer Boats: 1

Light Fighter: 4

Fighter: 4

Heavy Fighter: 8

Lifeboats: 10

Turbolift (6 person): 26

Lifboat (10 person): 8

Lifboat (20 person): 7

Lifboat (30 person): 0

Clothing Devices: 0

Sensor Index Values:

Planetary Survey: 2136

Star Map Survey: 11084

Short Range: 3325

Long Range: 1248

Navigation: 3082

Special: 8333

Comms: 2

Type: Daystrom Distronic IV p

Type: Daystrom Distronic II w

ECM Index: 1.19

Shield Rating:

Shield Index: 0.75

Holdoff Power: 8.09E+11 W

Refresh Rate: 2.39E+11 W

Breakdown Rate: 2.86E+11 W

Shield Dimensions (Meters)

Length: 523.80 m

Width: 238.60 m

Height: 24.05 m

Weapons:

Phase Power Index: 000

Photon Power Index: 0.729

Vessel Power Index: 0.885

Weapon Placement:

Beam (Phasers) Total: 6 Banks 2 each

Output: 7.50E+11 W 3 TE+1 W

Range: 4.10E+05 km

Rate of Fire: 40 ppm Cont

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhasers) Total: 26

Output: 1.0E+12 W 1.0E+12 W

Range: 50E+05 km

Rate of Fire: 20 ppm Cont

Forward-Rear Banks: 26

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 5 Bays

Stock: 00

Range: 2.90E+05 km

Output: 10-65 Megatons

Rate of Fire: 16 ppm

Forward Bay: 3

Rear Bay: 2

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

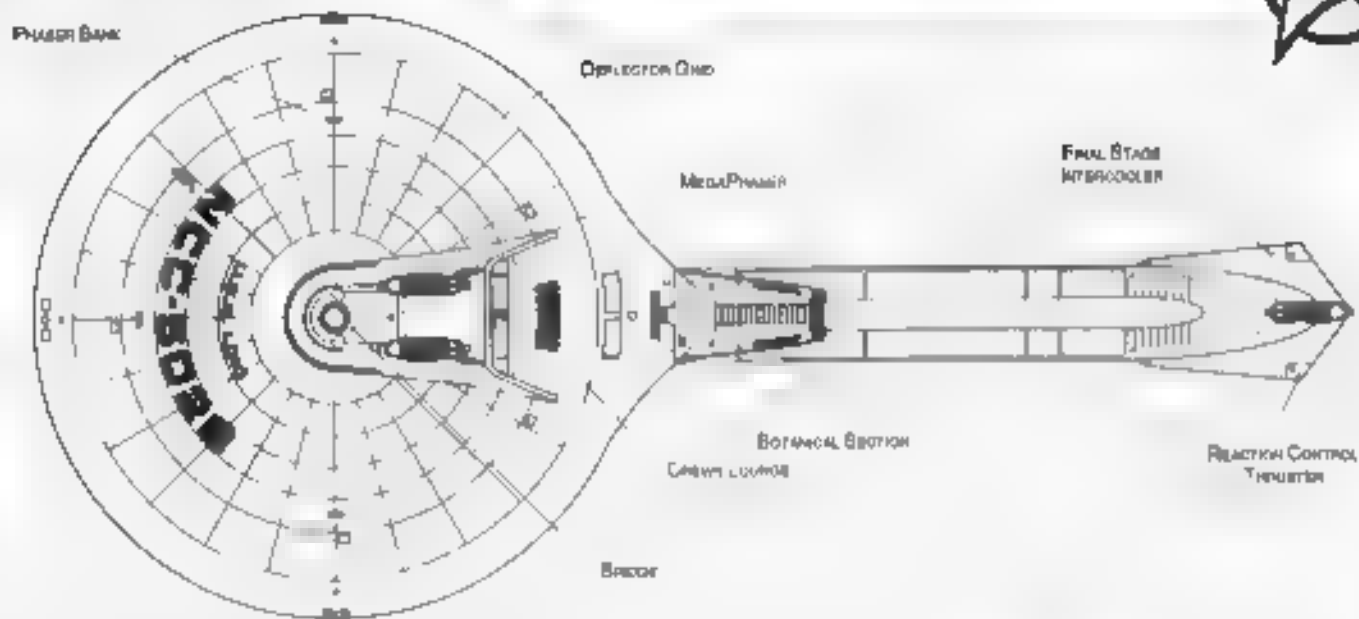
Lower Bay: 0

FEDERATION VESSEL

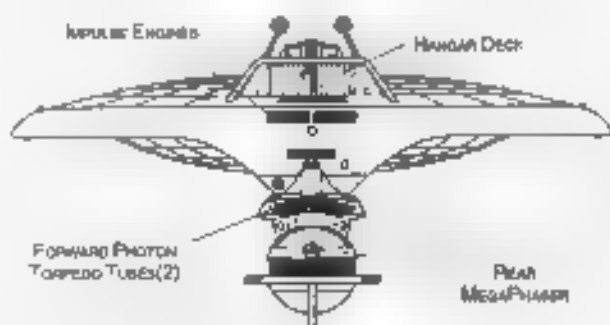
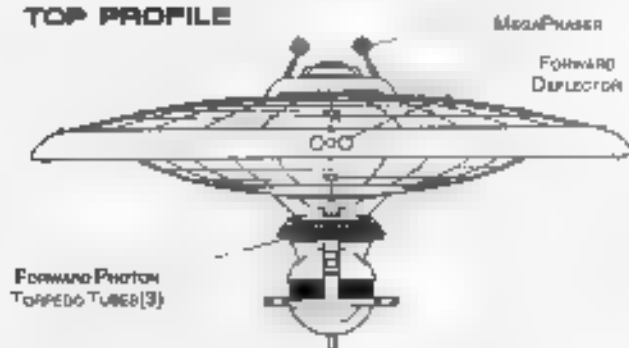
DESTROYER



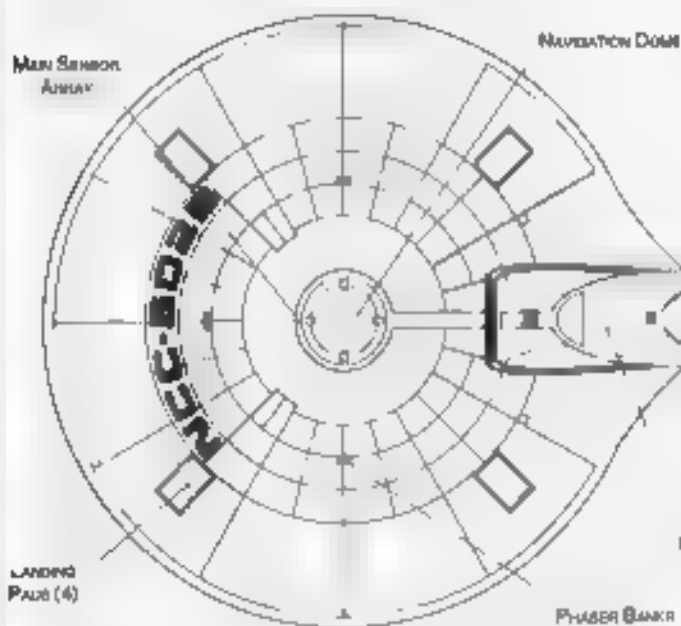
FEDERATION VESSEL



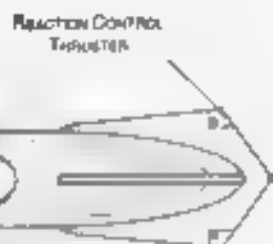
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50



DESTROYER

Ship Names

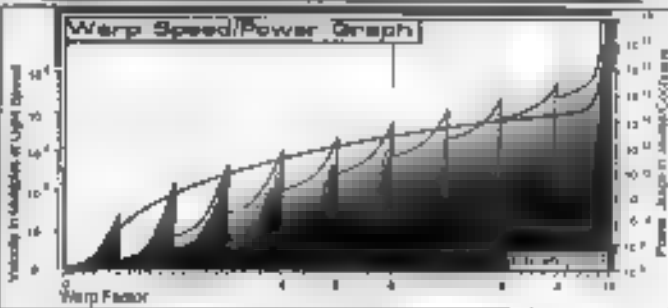
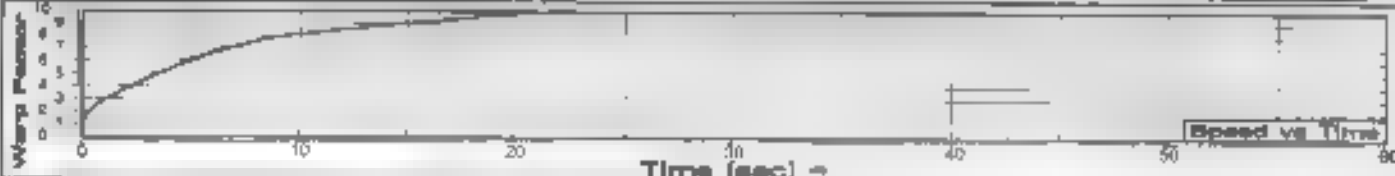
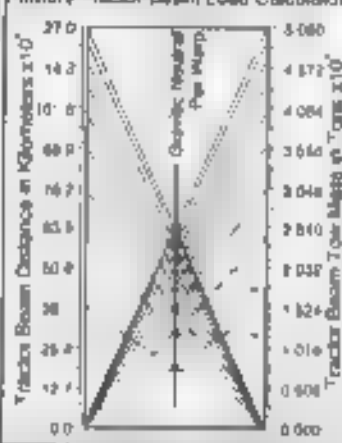
THE FOLLOWING SHIPS OF THE MK-VIII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2295.5

ACHILLES, NCC 5150	CHUCK, NCC 5150	LOKI, NCC 5000	SMADAN, NCC 6000
ADAM, NCC 5150	DAVE, NCC 5150	LOKI II, NCC 5150	SARAS, NCC 5150
ADAM BERN, NCC 5150	ELI, NCC 5150	L-SANDER, NCC 5150	SAR, NCC 5150
ADAMIAN, NCC 5150	EM, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	F, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	G, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	H, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	I, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	J, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	K, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	L, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	M, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	N, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	O, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	P, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	Q, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	R, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	S, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	T, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	U, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	V, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	W, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	X, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	Y, NCC 5150	MAL, NCC 5150	SH, NCC 5150
ADAM, NCC 5150	Z, NCC 5150	MAL, NCC 5150	SH, NCC 5150

CLASS B-1, LOST IN THE LINE OF DUTY. PROPOSED ALL NAMES CANCELED WITH W.E.B.

Tractor Beam Specifications

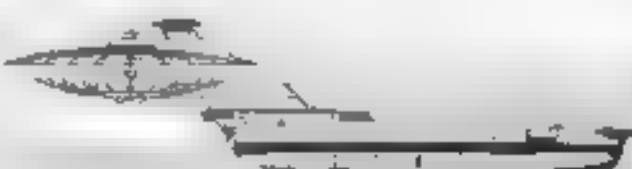
Primary Tractor Beam Load Calculator



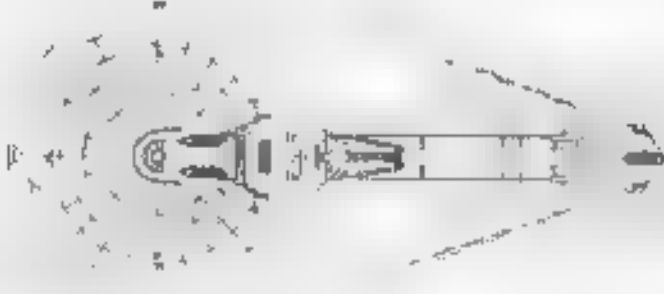
Field Length 658.40m
Field Width 180.84m
Field Height 101.78m



Front Warp Field Profile
Cross Section Area 18410.38 m²



Port Warp Field Profile
Cross Section Area 44550.91 m²



Top Warp Field Profile
Cross Section Area 76880.84 m²

WARP FIELDS

SAM3 04:02:08:04

STARFLEET REFERENCE MANUAL

LOKI CLASS

FEDERATION VESSEL

FRIGATE



General Information

Specific Role: Exhaustive research of Federation involvement in peace keeping duties led to the development of the Frigate, a fighting ship primarily used to transport troops and fighter craft into battle. The Frigate's main scout package presents a minimal silhouette target area to enemy vessels. Three Mega-plasma's powered directly off of the internal chamber provide this vessel with destroyer strength fire power. The Frigate is equipped with a medium hangar bay designed to launch and maintain two full wings of fighter craft. Troops, doubling as relief maintenance crew, are carried aboard at all times and can use either assault shuttles or combat transporters to reach planetary engagements.

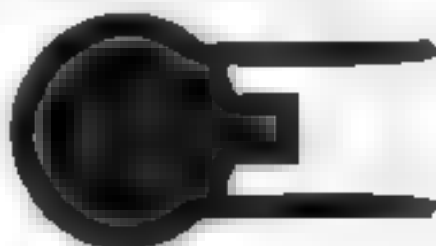
Physical Description: The (H520/C-FH) bridge is centered on top of the (P1-290/C-LB) primary hull, and the (JN8/6N) navigational dome is centered underneath. Five (H-2/60-2L) plasma banks are mounted radially on the top and six are mounted on bottom of the primary hull. A (H12/50-200) photon torpedo bay is mounted underneath the front of the hull. A large hangar bay extends from the rear underneath the impulse engines. The (M40/28-4E) stern's chamber is vertical from the collection crystal down to the small secondary hull where an ejection pore allows the core to be jettisoned downward in an emergency. The matter antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (CRF70L-8-R) dual impulse jet is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW-M4/2-2RL) nacelles are mounted on (DC/60-8P) support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 48124.88 m²



Top Silhouette
Area 32589.48 m²



Port Silhouette
Area 5809.23 m²



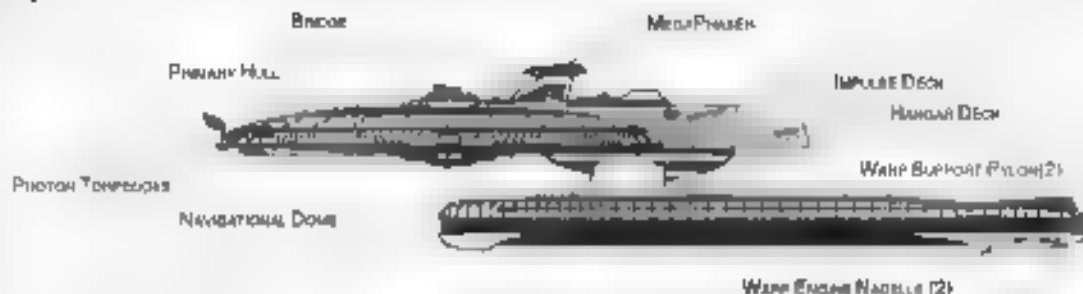
Front Silhouette
Area 2837.87 m²



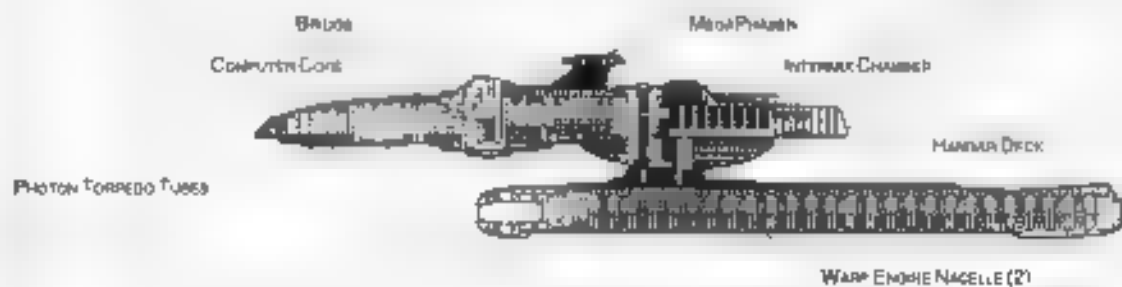
FRIGATE

LEAVENWORTH CLASS

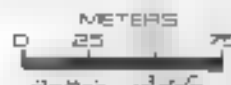
FEDERATION VESSEL



PORT PROFILE



CROSS SECTION



Statistics

Classification: Frigate
Category: Frigate
Class: Leavenworth
Type: Class
Model: MK-X00a
Kaval Construction Contract: 1901B
Number Produced: 85
Number Constructed: 71
Number in Service: 68
Number Lost: 3
Designation:

Overall Dimensions (Meters)

Length: 332.44 m
Width: 77.21 m
Height: 70.29 m
Primary Hull Dimensions (Meters)

Secondary Hull Dimensions (Meters)

Length: 164 m
Width: 164 m
Height: 164 m
Warp Unit Dimensions (Meters)

Length: 24.08 m
Width: 12.70 m
Height: 20.33 m
Displacement (Metric Tons)

Light: 266000 mt
Standard: 287000 mt
Full Load: 32485 mt
Performance: mt

Impulse Delta: Dual Dual (IRF06B-HR)
Impulse Engine Output: 64E+4 W
Impulse Power Index: 37
Max Cruising: C
Acceleration Rate:

0.00-0.25 Impulse: 0.132 sec
0.25-0.50 Impulse: 0.208 sec
0.50-0.75 Impulse: 0.278 sec
0.75-Full Impulse: 0.347 sec
Warp Delta: 2 Nacelle Units (SW104Z-12RU)
Warp Engine Output: 04E+18 W
Warp Power Index: 37

Optimum Speed: 3
Max Safe Cruising: 7
Emergency Speed: 8.45
Max Speed: 8.5
Destructive Speed: 9.4
Acceleration Power: 3
Acceleration Times:

Warp 1 Warp 2: 0.147 sec
Warp 2 Warp 3: 0.238 sec
Warp 3 Warp 4: 0.667 sec
Warp 4 Warp 5: 1.275 sec
Warp 5 Warp 6: 1.63 sec
Warp 6 Warp 7: 1.470 sec
Warp 7 Warp 8: 1.80 sec
Warp 8 Warp 9: 2.704 sec
Warp 9 Warp 9.5: 6.010 sec
Warp 9.5 Warp 9.75: 8.883 sec
Warp 9.75 Warp 9.9: 4.438

Duration (Years)
Standard: 0 Years
Maximum: 24 Years
Std. Ship Complement: 848

Officers: 51
Crew (Ensign Grade): 442
Troops: 7
Passengers: 67
Emergency condition: +750

Medical Facilities:
Doctors: 7
Nurses: 8
Operating Rooms: 6
Beds: 37

Laboratories: 8
Transporters Total: 15

1 Person: 0
2 Person: 0
6 Person: 8
12 Person: 9
22 Person: 8
Small Cargo: 2
Medium Cargo: 0
Large Cargo: 0
Stops Cargo: 0

Bridges: 33
Reactors: 22
Tractor Beams:
Tow Capacity: 5.28E+06 mt
Max Range: 120E+05 km
Cargo Specifications:

Standard Cargo Units: 84
Cargo Capacity: 17050 mt
Shuttlecraft Specifications:

Docking Ports: 2
Shuttlecraft Bays Total:
Small Bay: 0
Medium Bay: 1
Large Bay: 0
Super Bay: 0
Shuttlecraft Standard: 82
Work Bays: 2
Travel Pods: 3
Aquatic Shuttle: 1
Light Shuttle: 1
Standard Shuttle: 10
Heavy Shuttle: 1
Cargo Shuttle:
Assault Shuttle: 23
Killer Bays: 4
Light Fighters: 6
Fighter: 6
Heavy Fighter: 4
Lifeboats: 49

Turbolift (8 person): 28
Lifeboat (10 person): 16
Lifeboat (20 person): 7
Lifeboat (30 person): 6
Cloaking Device: 0
Navigation:
Planetary Survey: 0.9007
Stellar Survey: 0.7880
Short Range: 1.2358
Long Range: 1.0210
Navigation: 2408
Special: 2588
Compass: 2
Type: Daystrom Dectronic IV1
Type: Daystrom Dectronic III2

ECM Index: 21
Shield Rating:
Shield Index: 0.85
Heldoff Power: 8.54E+11 W
Refresh Rate: 27 E+ W
Breakdown Rate: 3.25E W
Shield Dimensions (Meters)
Length: 498.66 m
Width: 285.82 m
Height: 105.44 m
Weapons:

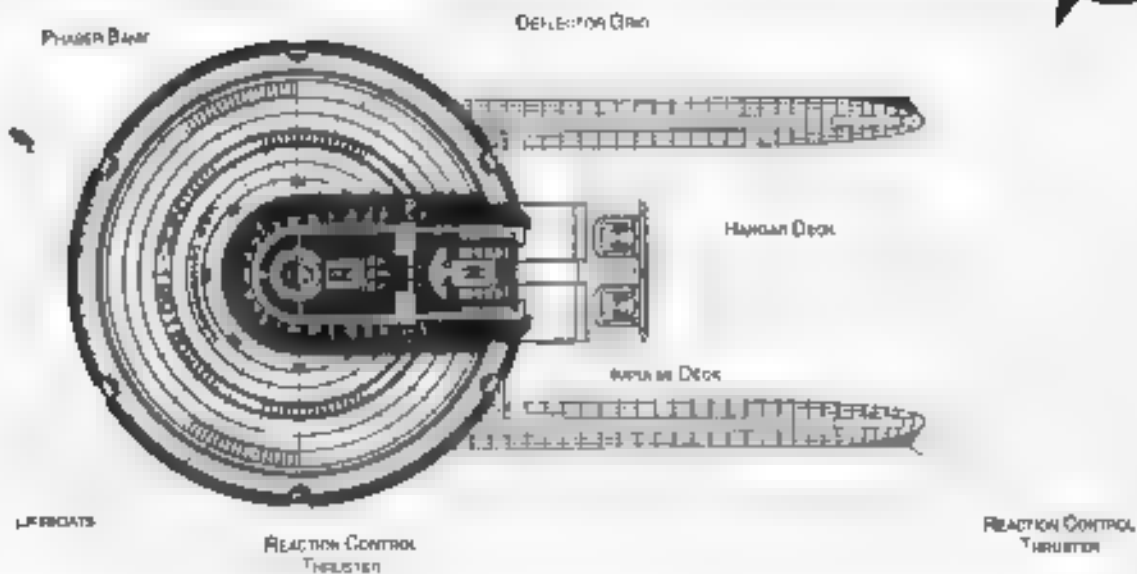
Phase: Power Index: 175
Photon Power Index: 0.887
Vessel Power Index: 121
Weapon Placement:

Beam (Phase) Total: 10 banks 2 each
Output: 7.50E+11 W 3.7E W
Range: 410E+05 km
Rate of Fire: 40 rpm Com
Forward Banks: 2
Rear Banks: 0
Port Banks: 4
Starboard Banks: 4
Upper Banks: 0
Lower Banks: 0

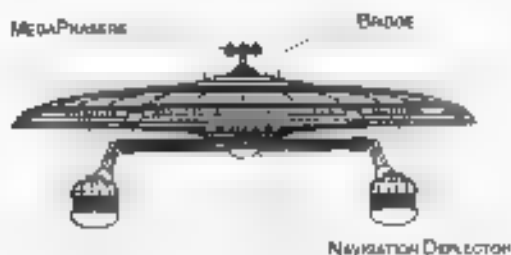
Beam (MegaPhasers) Total: 7
Output: 3.00E+11 W 5.12E W
Range: 50E+05 km
Rate of Fire: 20 rpm Com
Forward/Rear Banks: 3
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
Stock: 20

Range: 790E+05 km
Output: 0.66 Megatons
Rate of Fire: 20 rpm
Forward Bay: 2
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

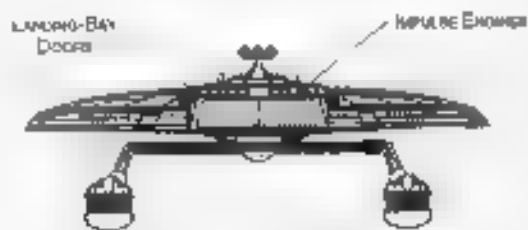
FRIGATE



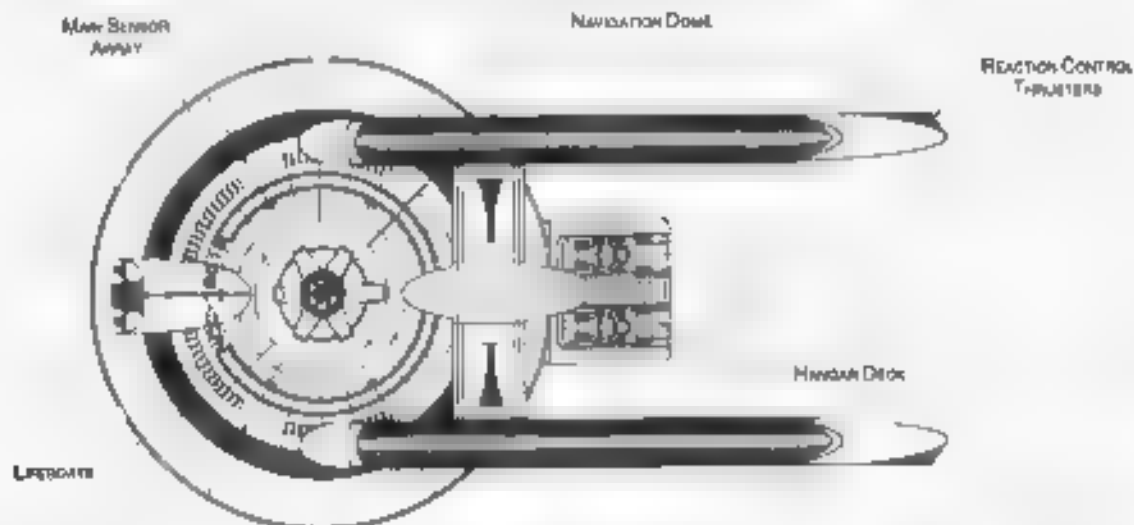
TOP PROFILE



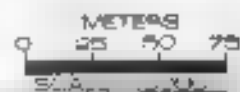
FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





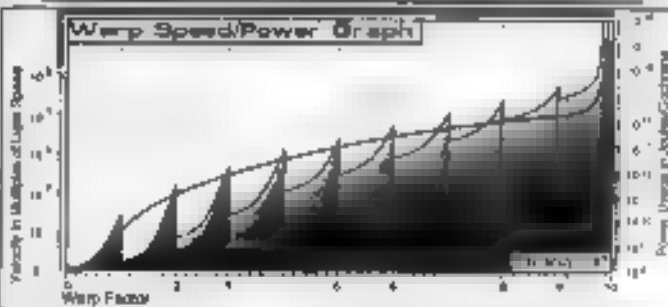
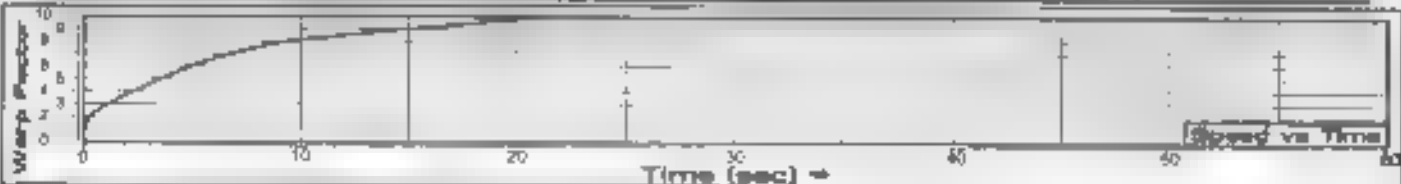
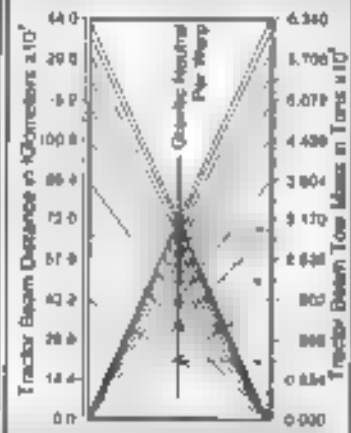
THE FOLLOWING SHIPS OF THE MK-XIII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 00070

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GLASS, SHE, LOST IN LINE OF DUTY, "PROCEEDED. ALL NAMES ENCODED WITH U.S.A.

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



Field Length 828.60m
Field Width 225.80m
Field Height 102.40m



Front Warp Field Profile
Cross Section Area 18305.71 m²



Port Warp Field Profile
Cross Section Area 22082.04 m²



Top Warp Field Profile
Cross Section Area = 4,680,000 mm²

WARP FIELDS

SAM3 04:02:09:04

STARFLEET REFERENCE MANUAL

SEATTLE, WA 98101

FEEDBACK WITHIN A FEW DAYS

HEAVY FRIGATE



General Information

Specific Role: Federation involvement in peace-keeping duties led to the development of the Heavy Frigate, a fighting ship primarily used to transport troops and fighter craft into battle. Four photon torpedo bays provide this vessel with sufficient fire power to combat capital ships. The Heavy Frigate is equipped with several hangar bays designed to launch and maintain twelve full wings of fighter and support craft. Troops, doubling as relief maintenance crew, are carried aboard at all times and can use either assault shuttles or combat transporters to reach planetary engagements.

Physical Description: The HS20/C F O bridge is centered on top of the (P1322/C F5) extended primary hull and the DN8 5N navigational dome is centered underneath. Five (DP2, 60-2C) phaser banks are mounted radially on top and underneath the primary hull. Four (PT34/50-40F) bidirectional photon torpedo bays are mounted behind the bridge and fire to either side. Three small hangar bays are directly below the impulse engines and a fourth medium hangar bay is centered underneath. The (MH4 26 4E) Intermix hangar bay is vertically from the deflection crystal down to the small secondary hull where an ejection path allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A KF70E, B.R dual impulse jet is located on the rear of the primary hull to provide sub light propulsion. For warp propulsion two (SW100/2 12KL) nacelles are mounted on DU/55-0P support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

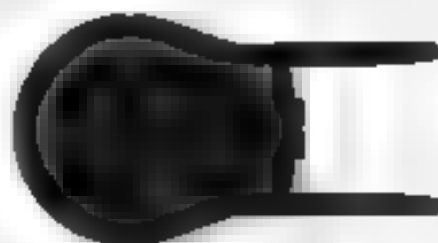
Class Emblem



Joshua Paul
Class
HEAVY FRIGATE

Ship Silhouettes

Total Target Area 48468.53 m²



Top Silhouette

Area 28088.33 m²



Area 2854.16 m²



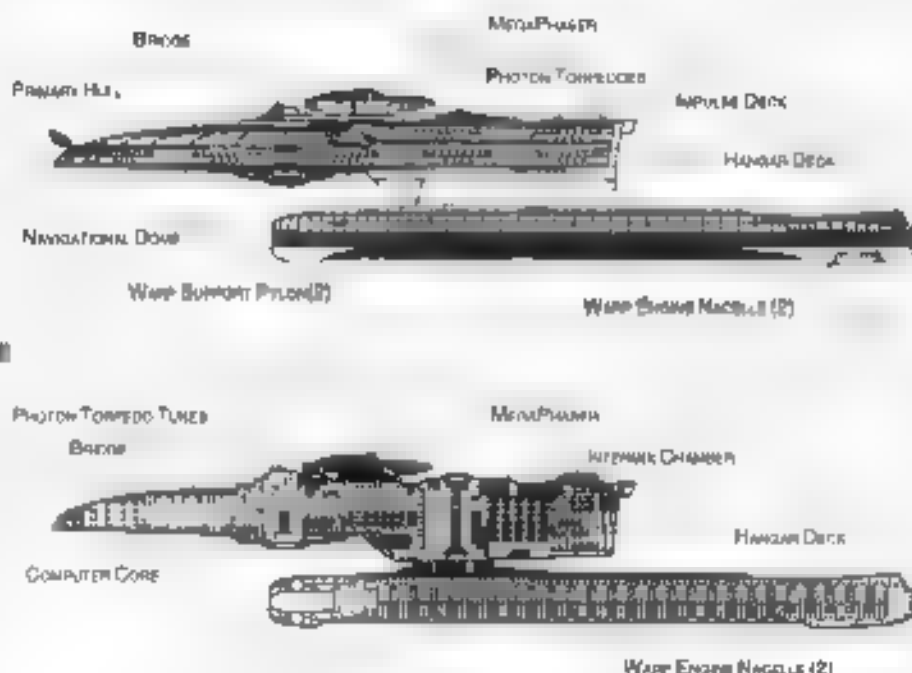
Front Silhouette

Area 4800.04 m²



HEAVY FRIGATE

JOSHUA PAUL CLASS



CROSS SECTION

Statistics

Classification: Heavy Frigate

Category: Frigate

Class: Joshua Paul

Type: Cargo

Model: NK-XIVa

Naval Construction Contract: 18318

Number Produced: 61

Number Constructed: 48

Number in Service: 43

Number Lost: 3

Dimensions

Overall Dimensions (Meters)

Length: 332.44 m

Width: 177.2 m

Height: 85.89 m

Primary Hull Dimensions (Meters)

Length: 229.98 m

Width: 177.2 m

Height: 86.30 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters)

Length: 24.08 m

Width: 17.70 m

Height: 20.10 m

Displacement (Metric Tons)

Light: 41,480 mt

Standard: 35,514 mt

Full Load: 36,463 mt

Performance: mt

Impulse Drive: Dual Unit (RF706B-4)

Impulse Engine Output: 84E+4 W

Impulse Power Index:

Max Cruising: 1

Acceleration Rate:

0.00-0.28 Impulse: 0.163 sec

0.28-0.50 Impulse: 0.257 sec

0.50-0.78 Impulse: 0.363 sec

0.78-Full Impulse: 0.428 sec

Warp Units: 2 Nozzle Units (5W1002-28U)

Warp Engine Output: 04E+18 W

Warp Power Index: 1.1

Optimum Speed: 5

Max. Sub Cruising: 7

Emergency Speed: 8.45

Max. Speed: 9.15

Destructive Speed: 9.4

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.184 sec

Warp 2 Warp 3: 0.280 sec

Warp 3 Warp 4: 0.594 sec

Warp 4 Warp 5: 0.573 sec

Warp 5 Warp 6: 0.84 sec

Warp 6 Warp 7: 0.817 sec

Warp 7 Warp 8: 2.132 sec

Warp 8 Warp 9: 3.335 sec

Warp 9 Warp 9.5: 4 sec

Warp 9.5 Warp 9.75: 8.565 sec

Warp 9.75 Warp 9.9: 7.608 sec

Duration (Years)

Standard: 61 years

Maximum: 74 years

Std. Ship Complement: 653

Officers: 51

Crew (Ensign Grade): 747

Troops: 151

Passengers: 12

Emergency condition: + 288

Medical Facilities:

Doctors: 16

Nurses: 36

Operating Rooms: 12

Beds: 64

Laboratories:

Transporters Total: 24

1 Person: 0

2 Person: 0

8 Person: 10

12 Person: 0

23 Person: 10

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Small Cargo:

Bridge: 40

Replicators: 27

Tractor Beam:

Tow Capacity: 5.45E+06 mt

Max Range: 124E+06 km

Cargo Specifications:

Standard Cargo Units: 400

Cargo Capacity: 24450 mt

Shuttlecraft Specifications:

Docking Ports: 2

Shuttlecraft Bays Total: 4

Small Bay: 3

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 60

Work Boat: 2

Travel Pods: 3

Aquatic Shuttle: 2

Light Shuttle: 0

Standard Shuttle: 10

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 41

Killer Bee: 8

Light Fighter: 0

Fighter: 0

Heavy Fighter: 0

Lifboats: 77

Turbiditi (8 person): 31

Lifboat (10 person): 32

Lifboat (20 person): 11

Lifboat (30 person): 1

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1630

Stellar Survey: 0.9810

Short Range: 36.6

Long Range: 1250

Navigation: 3598

Special: 0257

Computers: 2

Type: Daystrom Duetronic IVx

Type: Daystrom Duetronic III

ECM Index: 1.21

Shield Rating:

Shield Index: 1.15

Shield Power: 1.20E+12 W

Refresh Rate: 366E- W

Breakdown Rate: 4.50E+ W

Shield Dimensions (Meters)

Length: 496.68 m

Width: 265.82 m

Height: 98.84 m

Weapons:

Phaser Power Index: 625

Photon Power Index: 8.880

Vessel Power Index: 0.257

Weapon Placement:

Beam (Phasers) Total: 0 banks 2 each

Output: 7.50E+1 W 3 JE W

Range: 4.10E+05 km

Rate of Fire: 40 ppm Cont

Forward Banks: 2

Rear Banks: 0

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 0

Beam (Megaphasers) Total: 4

Output: 3.00E+2 W 5E12 W

Range: 1.80E+06 km

Rate of Fire: 20 ppm Cont

Forward/Rear Banks: 4

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 5 Bays

Stock: 400

Range: 2.00E+05 km

Output: 0.55 Megatons

Rate of Fire: 20 ppm

Forward Bay: 4

Rear Bay: 4

Port Bay: 0

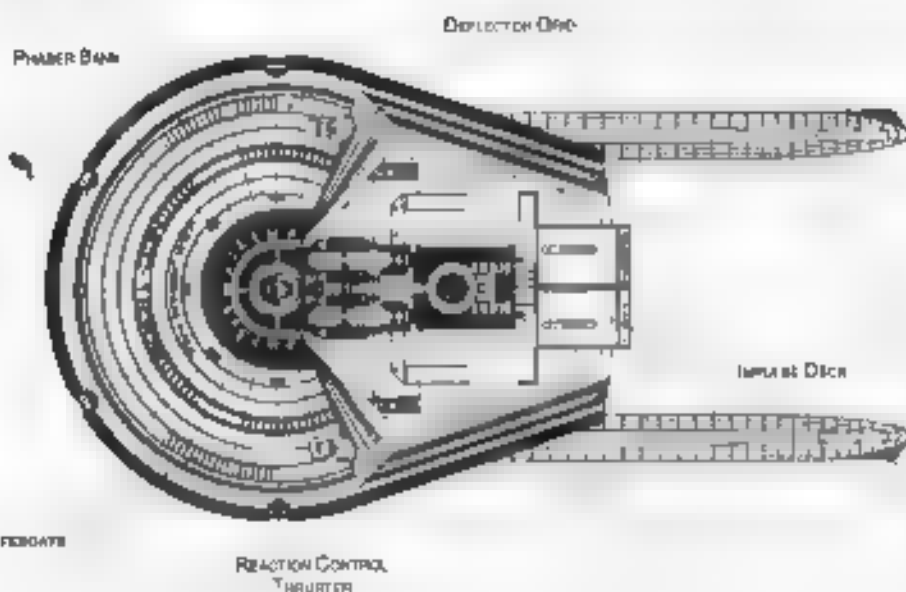
Starboard Bay: 0

Upper Bay: 0

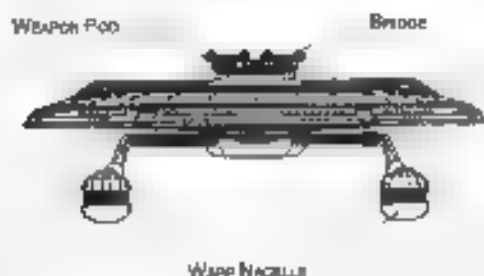
Lower Bay: 0

REPRODUCTION VIOLATION

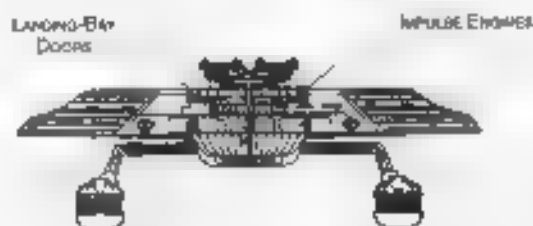
HEAVY FRIGATE



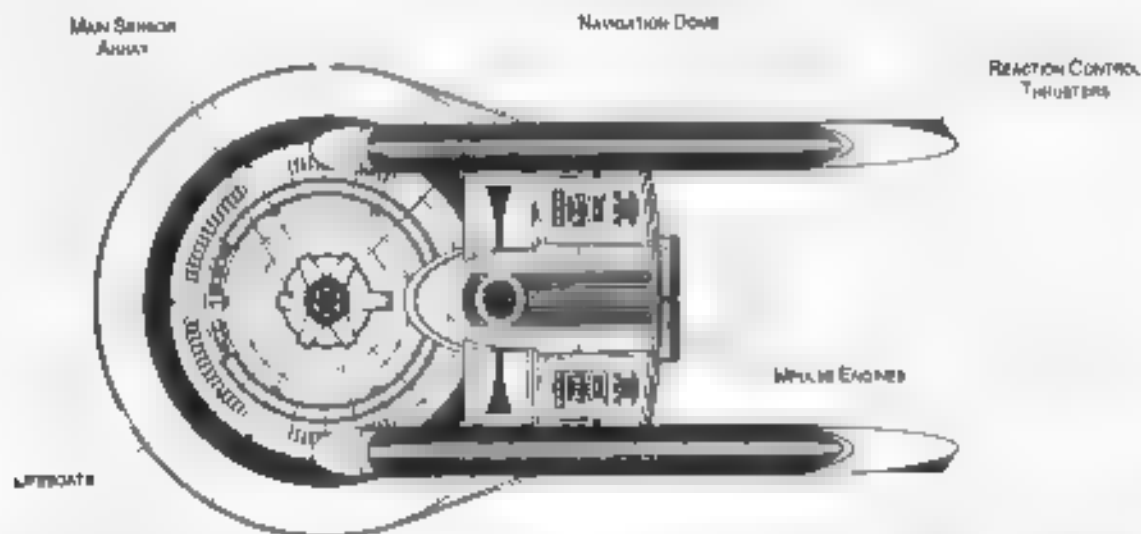
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





HEAVY FRIGATE

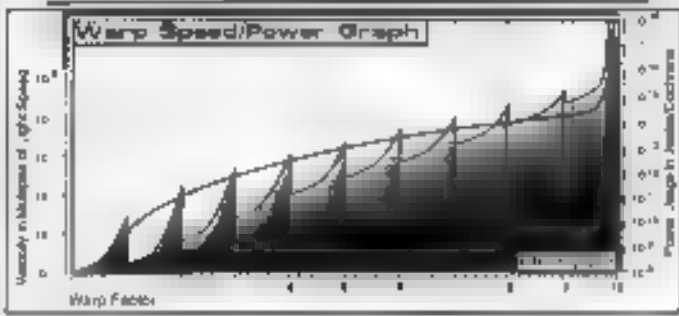
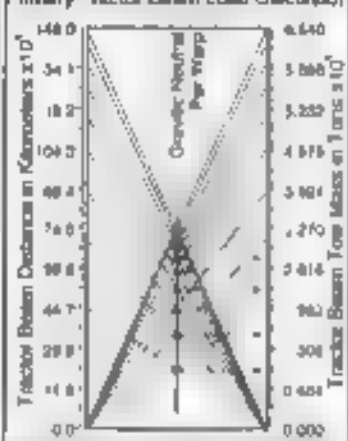
Ship Names

THE FOLLOWING SHIPS OF THE NX XIV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2227.8

ARMOR 1 NCC 1811M	KUNO NCC 1842B	PHALX NCC 1801B
ARMATHA NCC 1876B	KOWAL NCC 1842B**	PRYTAN NCC 1847B
ARMED NCC 1808B	KROWIS NCC 1842B	TYCART NCC 1842B
ARM NCC 1811M	LEJUNE NCC 1842B**	JOHNANKE 2 NCC 1847B
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 1 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 2 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 3 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 4 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 5 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 6 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 7 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 8 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 9 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 10 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 11 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 12 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 13 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 14 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 15 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 16 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 17 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 18 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 19 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 20 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 21 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 22 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 23 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 24 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 25 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 26 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 27 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 28 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 29 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 30 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 31 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 32 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 33 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 34 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 35 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 36 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 37 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 38 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 39 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 40 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 41 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 42 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 43 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 44 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 45 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 46 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 47 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 48 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 49 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 50 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 51 NCC 1842B**
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ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 54 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 55 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 56 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 57 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 58 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 59 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 60 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 61 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 62 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 63 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 64 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 65 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 66 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 67 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 68 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 69 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 70 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 71 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 72 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 73 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 74 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 75 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 76 NCC 1842B**
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ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 78 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 79 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 80 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 81 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 82 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 83 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 84 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 85 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 86 NCC 1842B**
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ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 97 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 98 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 99 NCC 1842B**
ARMAN NCC 1808B	LEJUNE NCC 1842B	WY 100 NCC 1842B**

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



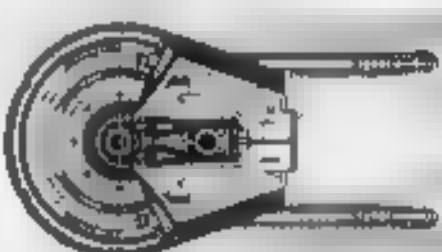
Field Length 887.17m
Field Width 222.22m
Field Height 102.48m



Front Warp Field Profile
Cross Section Area 18308.76 m²



Port Warp Field Profile
Cross Section Area 98308.24 m²



Top Warp Field Profile
Cross Section Area 181070.44 m²

WARP FIELDS

SRM3 04:02:10:04

STARFLEET REFERENCE MANUAL

JOSHUA PAUL CLASS

FEDERATION VESSEL

SCOUT



General Information

Specific Role: The Scout is a fast, cost-effective starship used for patrols, surveillance, and Federation defense. The high-draught dual warp engine configuration gives the Michael Adam class an extended warp field for increased speed and efficiency. During military operations, the Scout, using extensive surveillance equipment, performs extended reconnaissance patrols of critical areas ahead of Federation vessels. The Scout is usually on extended mapping and treaty boundary reconnaissance missions. This design is based on the Joshua Class Command Cruiser.

Physical Description: The (P1818/L-58) bridge is centered on top of the (P1250/D-1.5) primary hull and the (P148/hN) navigational dome is centered underneath. The primary hull is equipped with additional sensors and a med arm hangar deck facing to the rear. Three (P12700/20) phaser banks are mounted radially on the top and bottom of the primary hull. A (SMF-99/BA) high-gain omnidirectional sensor array is mounted on top of the warp nacelle and an (S-A-7/4A) direction array is mounted underneath. The primary hull is joined to the unique dual warp nacelle by a (D1,80/30) connecting dorsal. The (P12750/20) photon torpedo bay is located at the base of the connecting dorsal. The (M70/284E) mirror chamber runs vertically from the deflection crystal down to the dual warp nacelle where an ejection plate allows the core to be jetted out downward on an emergency. The matter/antimatter storage tanks are positioned between the field coils for emergency jettisoning. To the rear of the primary hull are (P2,2E/4) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessel's warp fields are generated by A (SW64, 4KV) dual warp nacelles. In the event of an emergency, the primary hull can separate from the warp nacelle section. Once separated, the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area: 42884.74 m²



Top Silhouette

Area: 29381.87 m²



Port Silhouette

Area: 1928.18 m²



Front Silhouette

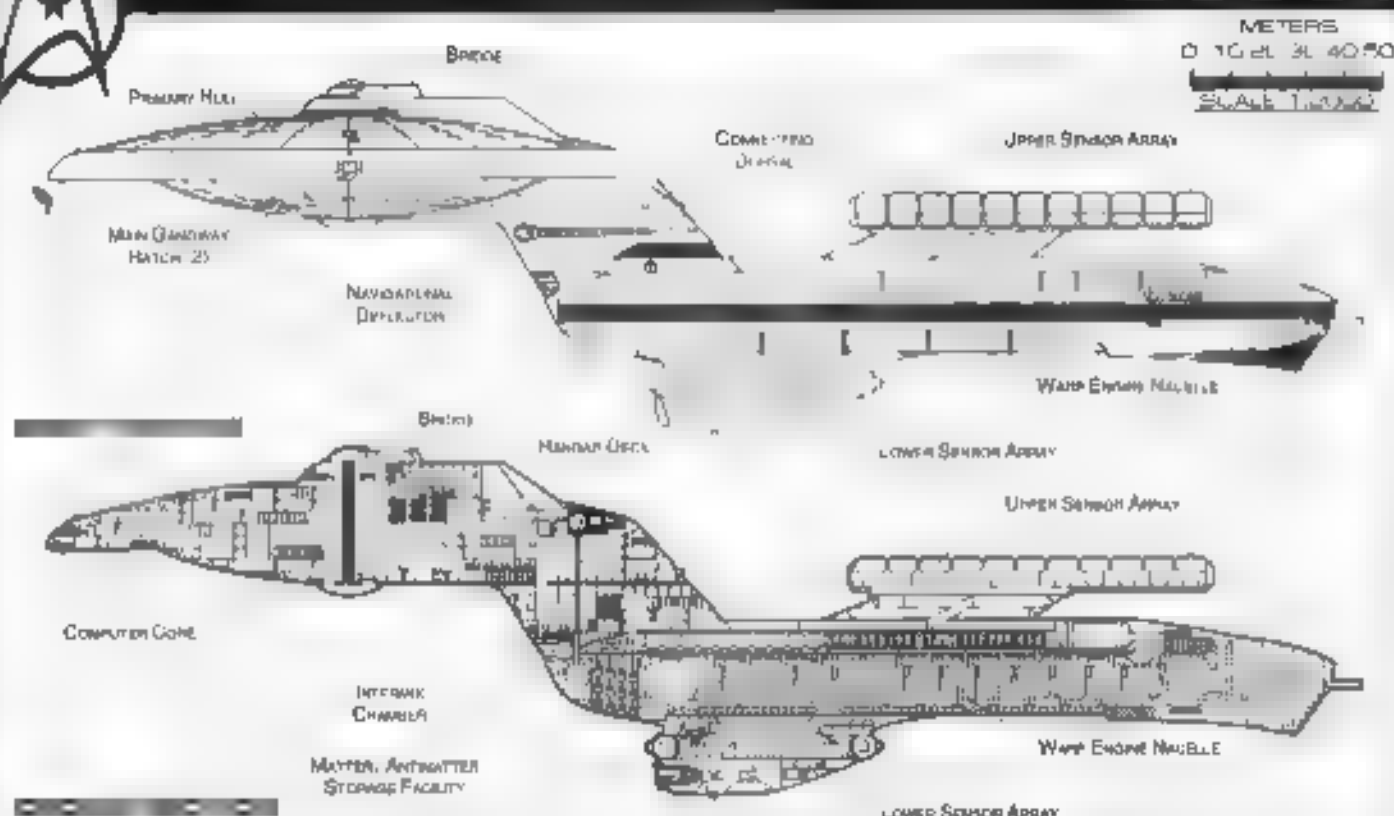
Area: 42884.71 m²



SCOUT

3

FEDERAL ON VESSEL



Statistics

Classification: Scout

Category: Scout

Class: Michael Adam

Type: Class

Model: MF XXX

Naval Construction Contract: 50028

Number Proposed: 88

Number Constructed: 88

Number in Service: 94

Number Lost: 4

Dimensions:

Overall Dimensions (Meters)

Length: 147.80 m

Width: 150.20 m

Height: 80.12 m

Primary Hull Dimensions (Meters)

Length: 70.82 m

Width: 150.20 m

Height: 10.26 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters)

Length: 14.62 m

Width: 15.82 m

Height: 28.10 m

Displacement (Metric Tons)

Light: 246784 mt

Standard: 788000 mt

Full Load: 10885 mt

Performance: mt

Impulse Units: Dual Unit HP2 2E/4 IT

Impulse Engine Output: 84E+4 W

Impulse Power Index: 30

Max Cruising: 1

Acceleration Rate:

0.00-0.25 Impulse: 0.022 sec

0.25-0.50 Impulse: 0.027 sec

0.50-0.75 Impulse: 0.027 sec

0.75-Full Impulse: 0.32 sec

Warp Unit: Nucleo Unit (SWB4/C4RW)

Warp Engines Output: 8.07E+15 W

Warp Power Index: 3.30

Optimum Speed: 5

Max Safe Cruising: 7

Emergency Speed: 8.3

Max Speed: 9.5

Destructive Speed: 9.35

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.55 sec

Warp 2 Warp 3: 0.248 sec

Warp 3 Warp 4: 0.036 sec

Warp 4 Warp 5: 346 sec

Warp 5 Warp 6: 439 sec

Warp 6 Warp 7: 555 sec

Warp 7 Warp 8: 996 sec

Warp 8 Warp 9: 2.855 sec

Warp 9 Warp 9.8: 11.144 sec

Warp 9.8 Warp 9.75: 7.160 sec

Warp 9.75 Warp 9.8: 15.241

Duration (Years)

Standard: 21 Years

Maximum: 21 Years

Std. Ship Complement: 128

Officers: 40

Crew (Ensign Grade): 414

Troops: 10

Passengers: 80

Emergency conditions: 7 8

Medical Facilities:

Doctors: 6

Nurses: 14

Operating Rooms: 5

Beds: 32

Laboratories: 45

Transports: Total: 14

1 Person: 0

2 Person: 0

3 Person: 1

12 Person: 0

22 Person: 5

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

Bridge: 22

Replicators: 24

Tractor Beams:

Tow Capacity: 3.58E+08 mt

Max Range: 8.9E+04 km

Cargo Specifications:

Standard Cargo Units: 367

Cargo Capacity: 9350 mt

Shuttlecraft Specifications:

Docking Ports: 2

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 10

Work Bays: 2

Travel Pods: 2

Aquatic Shuttle:

Light Shuttle:

Standard Shuttle: 8

Heavy Shuttle:

Cargo Shuttle: 14

Assault Shuttle: 2

Missiles: 3

Light Fighter: 4

Fighter: 4

Heavy Fighter: 3

Lifeboats: 18

TurboHlt (6 person): 30

Lifeboat (10 person): 15

Lifeboat (20 person): 7

Lifeboat (30 person): 1

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1.5078

Stellar Survey: 2.1750

Short Range: 1221

Long Range: 1.5823

Navigation: 2157

Special: 7.8342

Computers: 2

Type: Daystrom Electronic IV:0

Type: Daystrom Electronic III:0

ECM Index: 10

Shield Index: 0.78

Shield Index: 0.78

Reidoff Power: 8.75E+11 W

Refresh Rate: 2.40E+11 W

Breakdown Rate: 2.40E+11 W

Shield Dimensions (Meters)

Length: 52.85 m

Width: 238.80 m

Height: 39.06 m

Weapons:

Phaser Power Index: 0.178

Photon Power Index: 0.87

Vessel Power Index: 0.271

Weapon Placement:

Beam (Phasers) Total: 6 banks 2 each

Output: 50E+ W 37E+ W

Range: 4 1E+05 km

Rate of Fire: 40 ppm Core

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 3 Bays

Block: 40

Range: 2.50E+06 km

Output: 10-55 Megatons

Rate of Fire: 18 ppm

Forward Bays: 2

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

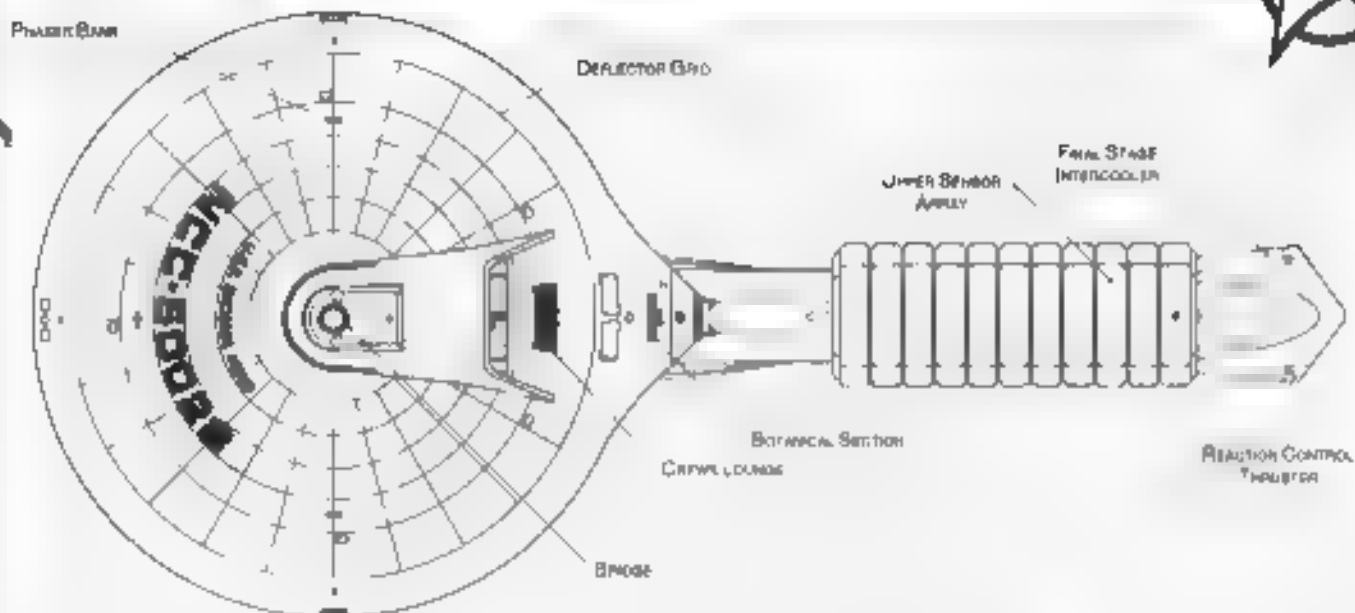
Upper Bay: 0

Lower Bay: 0

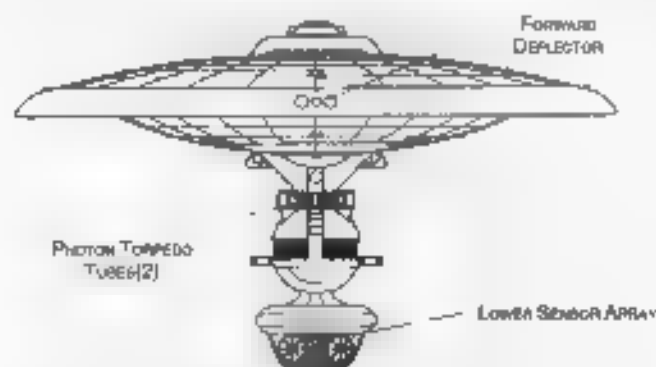
SAM3 04:02:11:02

VEILED PERFORMANCE MANIPULATION

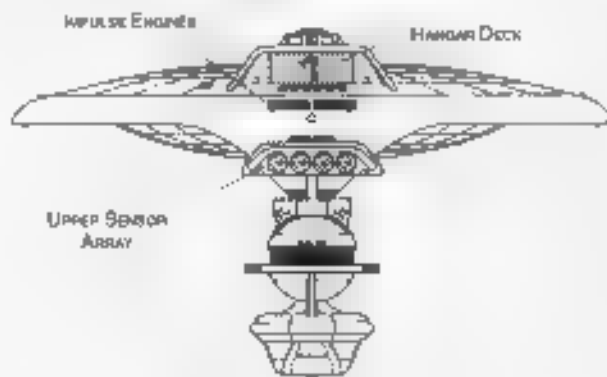
SCOUT



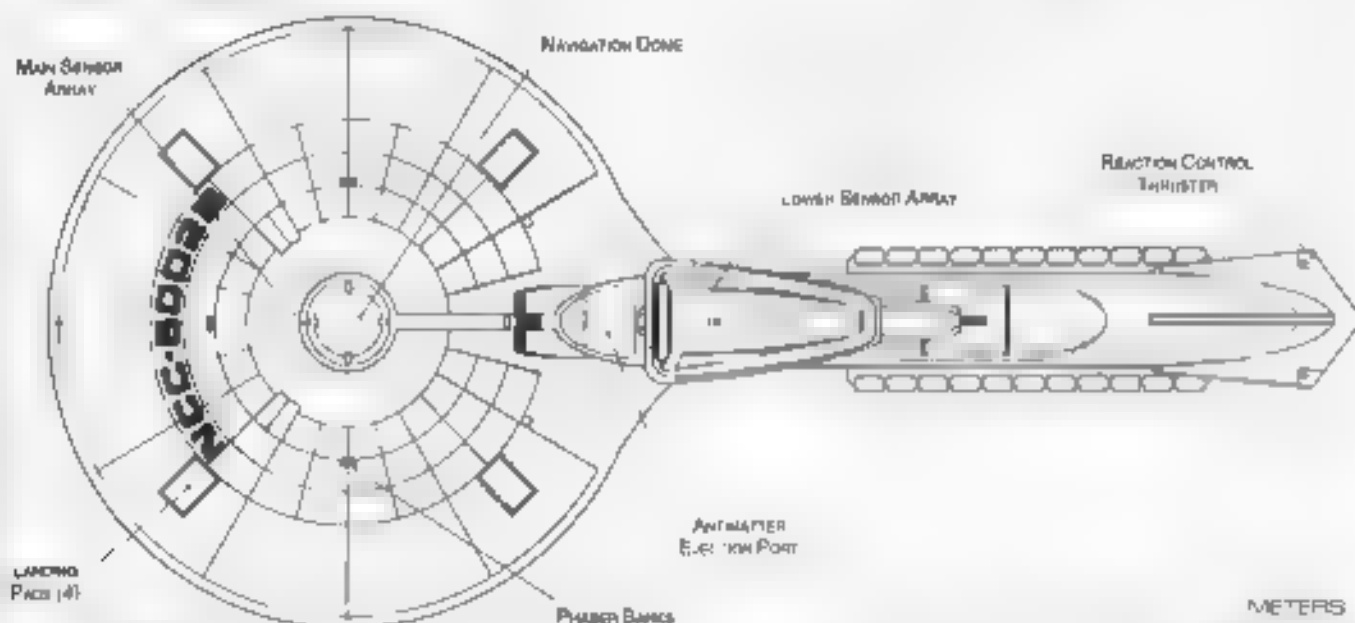
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

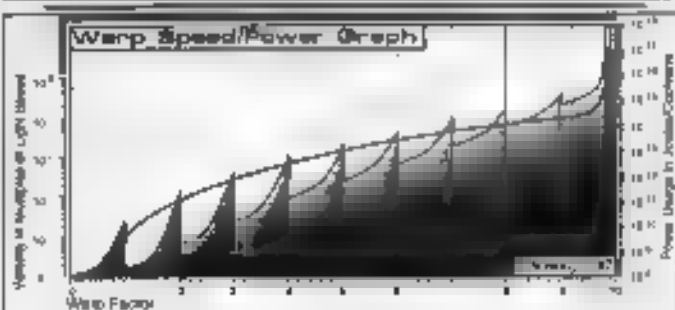
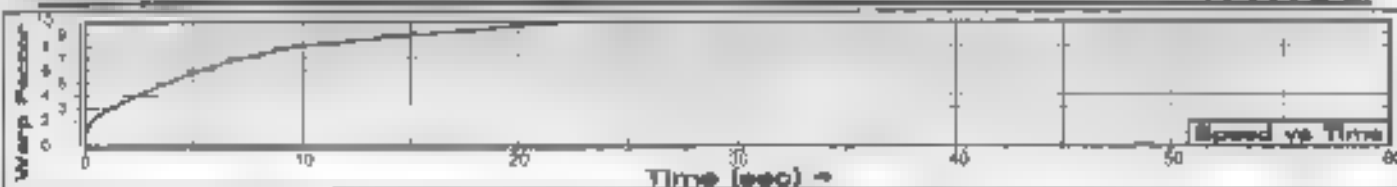
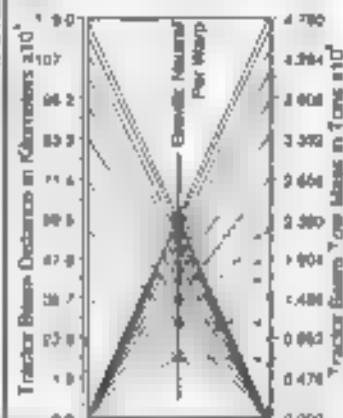
METERS
0 10 20 30 40 50



MICHAEL ADAM CLASS

[illegible]

Primary Tractor Beam Load Calculator



Field Length 547.40m
Field Width 475.50m
Field Height 116.50m

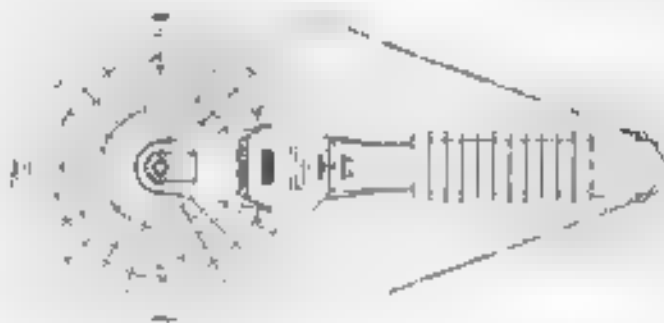


Front Warp Field Profile
Cross Section Area 18035.18 m²



Port Wierp Field Profile

Crack Section Area: 202,000 m²



Top Warp Field Profile
Cross Section Area: 80181.40 m²

WARP FIELDS

SAM3 04:02:11:04

STABFLEET REFERENCE MANUAL

FEDERATION VESSEL

TRANSPORT / TUG



General Information

Specific Role: The Anaxagoras Class Transport/Tug is one of the Federation's most widely used supply and vessels. Starfleet in particular depends upon the reliability of this vessel since it spends the least amount of time or any starship in port even when compared to deep space exploration vessels. The transport/tug has additional stations to accommodate passengers. This vessel is capable of transporting four containers at a time and up to eight containers through the use of container warp extenders.

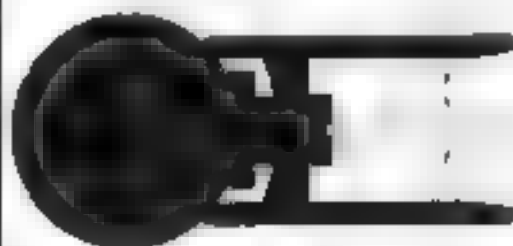
Physical Description: The (H820/C 1.8) bridge is centered on top of the (PH290/C 1.5) primary hull and the (DN8, 6N) navigational dome is centered underneath. Five (PH2/60/20) phaser banks are mounted radially on the top and bottom of the primary hull. A (PH2/50/20) photon torpedo bay is mounted underneath the front of the hull. A medium hangar bay extends from the rear underneath the impulse engines. The (MH0/28/4.1) antenna chamber runs horizontally between the jefferies tubes however the core can be retracted through the deflection crystals in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the hull. A (TF70E/8/10) dual impulse core is located on the rear of the primary hull to provide additional thrust or propulsion. For warp propulsion two (SW 04/2/1 RT) nacelles are mounted on (DC/70/12) support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 51,858.08; 71,736.38; 107,183.43 m²



Top Silhouette

Area 38485.68; 48840.89; 71306.58 m²

Port Silhouette

Area 5370.08; 11040.88; 22328.78 m²



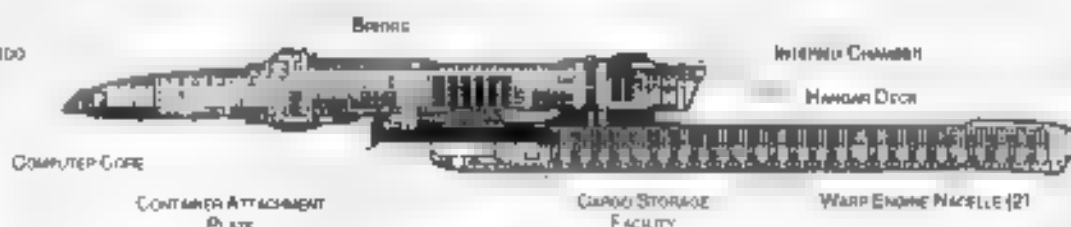
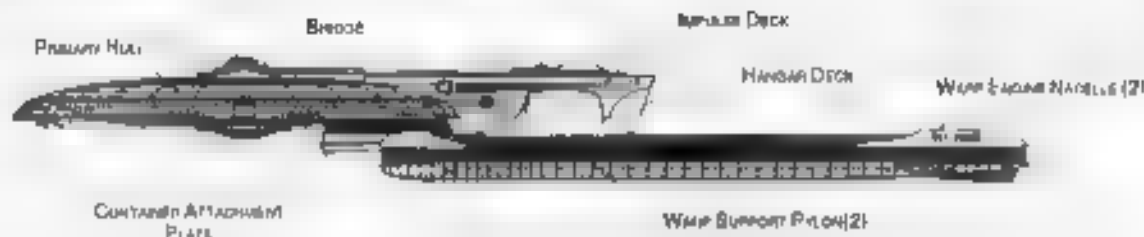
Front Silhouette

Area 3808.35; 5645.75; 7488.18 m²



TRANSPORT//TUG

ANAXAGORAS CLASS



CROSS SECTION

Statistics

Classification: Transport/Tug

Category: Transport/Tug

Class: Anaxagoras

Type: Class

Model: AN-V16

Naval Construction Contract: 39008

Number Proposed: 100

Number Constructed: 100

Number in Service: 96

Number Lost: 4

Dimensions:

Overall Dimensions (Meters):

Length: 34.70 m

Width: 7.24 m

Height: 46.00 m

Primary Hull Dimensions (Meters):

Length: 246.88 m

Width: 77.4 m

Height: 30 m

Secondary Hull Dimensions (Meters):

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters):

Length: 247.08 m

Width: 17.70 m

Height: 20.33 m

Displacement (Metric Tons):

Light: 30000 mt

Standard: 32422 mt

Full Load: 352.58 mt

Performance: mt

Impulse Units: Dual Unit (IRF70E/8-IM)

Impulse Engine Output: 84E+14 W

Impulse Power Index: 22

Max Cruising: C

Acceleration Rate:

0.00-0.38 Impulse: 0.40 sec

0.38-0.50 Impulse: 0.234 sec

0.50-0.78 Impulse: 0.313 sec

0.78-Full Impulse: 0.391 sec

Warp Unit: 2 Nacelle Units (RW1042-10F7)

Warp Engine Output: 84E+16 W

Warp Power Index: 22

Optimum Speed: 5

Max. Refs Cruising: 7

Emergency Speed: 8.2

Max Speed: 9.05

Destructive Speed: 8.28

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.85 sec

Warp 2 Warp 3: 0.284 sec

Warp 3 Warp 4: 0.899 sec

Warp 4 Warp 5: 4.97 sec

Warp 5 Warp 6: 5.38 sec

Warp 6 Warp 7: .850 sec

Warp 7 Warp 8: 2.30 sec

Warp 8 Warp 9: 3.047 sec

Warp 9 Warp 9.5: 0.770 sec

Warp 9.5 Warp 9.78: 7.843 sec

Warp 9.78 Warp 9.9: 16.265

Duration (Years)

Standard: 8 Years

Maximum: 24 Years

Std. Ship Complement: 559

Officers:

Crew (Ensign Grade): 87

Troops: 5

Passengers: 92

Emergency condition: +1144

Medical Facilities:

Doctors: 0

Nurses: 23

Operating Rooms: 8

Beds: 53

Laboratories: 13

Transporters: Total: 10

1 Person: 0

2 Person: 0

6 Person: 8

12 Person: 0

22 Person: 8

Small Cargo: 2

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

Bridge: 30

Replicators: 26

Tractor Beams:

Tow Capacity: 4.28E+08 m

Max Range: 1.06E+05 km

Cargo Specifications:

Standard Cargo Units: 366

Cargo Capacity: 19000 mt

Shuttlecraft Specifications:

Docking Ports: 2

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 36

Work Base: 2

Travel Pods: 2

Aquatic Shuttle: 1

Light Shuttle:

Standard Shuttle: 8

Heavy Shuttle:

Cargo Shuttle: 1

Annular Shuttle: 0

Killer Base: 3

Light Fighter: 4

Fighter: 4

Heavy Fighter: 3

Lifboats: 65

Turbolift (8 person): 4

Lifboat (10 person): 30

Lifboat (20 person): 3

Lifboat (30 person):

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.0670

Galaxy Survey: 0.0608

Short Range: 0.0634

Long Range: 0.0754

Navigation: 198

Special: 9397

Computers: 2

Type: Daystrom Duetrands IVa

Type: Daystrom Duetrands IIBb

ECM Index: 12

Shield Rating:

Shield Index: 40

Bolt-Off Power: 57E 12 W

Refresh Rate: 4.47E W

Breakdown Rate: 5.37E+ 1 W

Shield Dimensions (Meters)

Length: 58.55 m

Width: 285.82 m

Height: 12.00 m

Weapons:

Phaser Power Index: 0.625

Photon Power Index: 0.282

Vessel Power Index: 0.456

Weapon Placement:

Beam (Phasers) Total: 10 banks 2 each

Output: 7.50E+11 W 3.7E 1 W

Range: 4 UE+06 km

Rate of Fire: 40 rpm Cont.

Forward Banks: 2

Rear Banks: 0

Port Banks: 4

Starboard Banks: 4

Upper Banks: 0

Lower Banks: 0

Beam (Megaphasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 2 Bays

Stock: 70

Range: 2.90E+05 km

Output: 0.56 Megatons

Rate of Fire: 16 rpm

Forward Bay: 2

Rear Bay: 0

Port Bay: 0

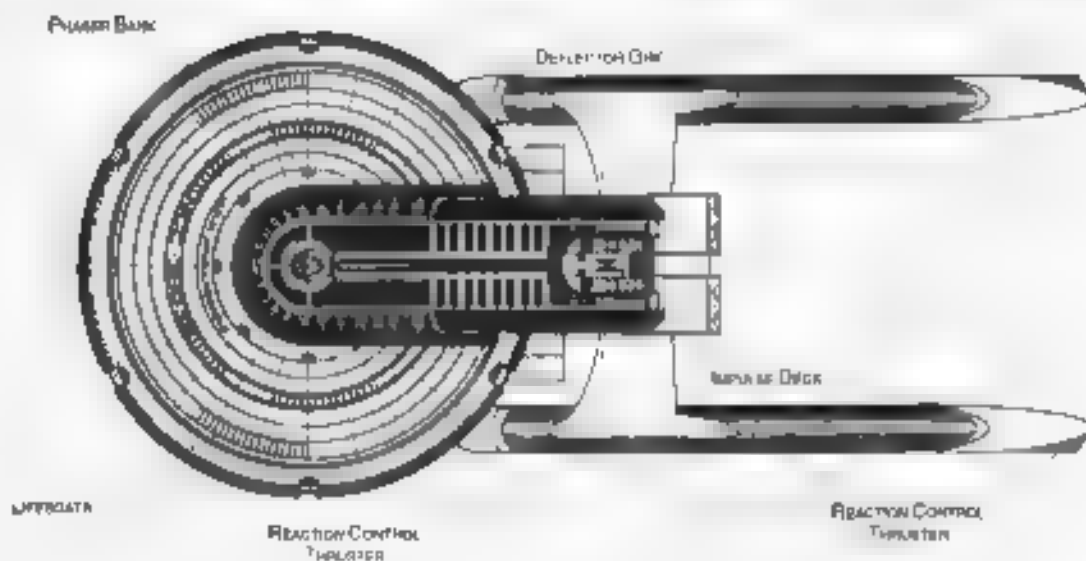
Starboard Bay: 0

Upper Bay: 0

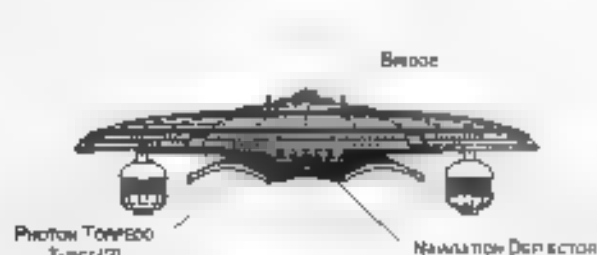
Lower Bay: 0

FEDERATION VESSEL

TRANSPORT/TUG

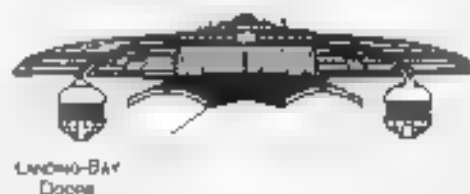


TOP PROFILE

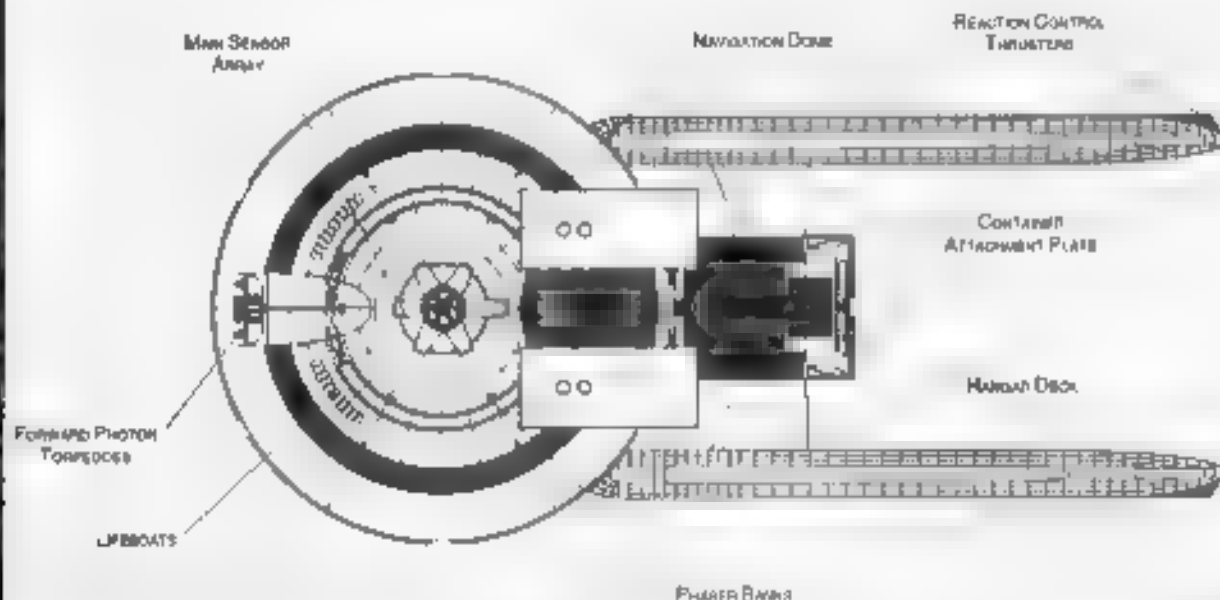


FRONT PROFILE

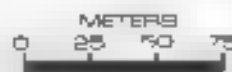
IMPULSE ENGINES



REAR PROFILE



BOTTOM PROFILE



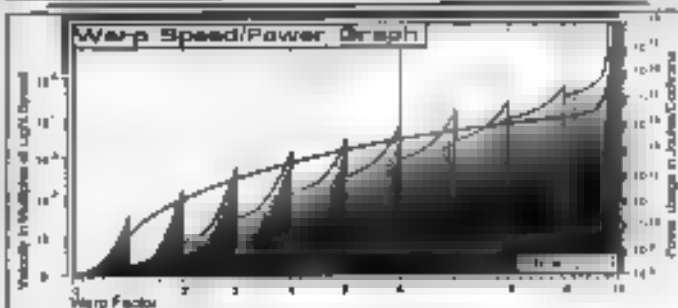
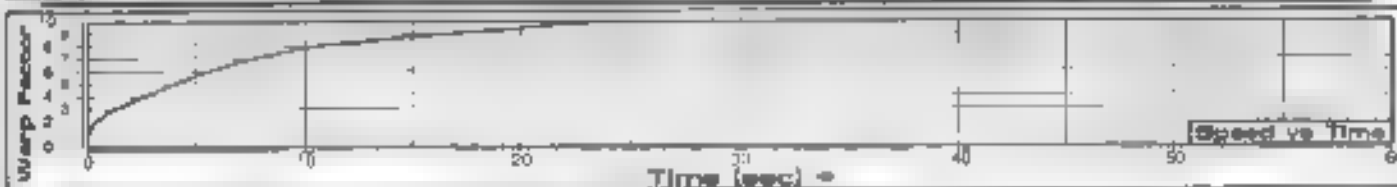


Ship Names

Tractor Beam Specifications

Primary Tractor System (with Cat 3400)

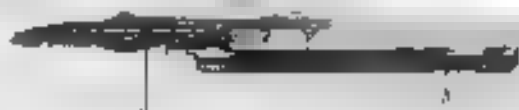
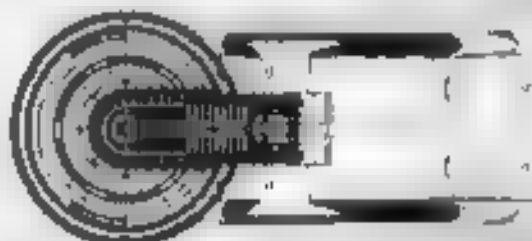
'CLASSIC HIT. 'LOST IN THE LINE OF DUTY. 'PROPOSED. ALL NAMES RECORDED WITH U.S.S.



Field Length 5493.55m
Field Width 277.55m
Field Height 182.30m



Front Warp Field Profile
Cross Section Area 24041.50 m²

Port Warp Field Profile
Cross Section Area 6800000 m²

Top Warp Field Profile
Cross Section Area 187302.74 m²

WARP FIELDS

SRM3 04:02:12:04

STARFLEET REFERENCE MANUAL

ANAXAGORAS CLASS

FEDERATION VESSEL

BULK CARGO CARRIER



General Information

Specific Role: The Bulk Cargo Carrier (BCC) is the super tanker of the Federation. Often starbase sections, starship parts (such as primary hulls or warp nacelles) and whole research stations are transported by BCCs. The responsibility of safely navigating this 1,300 meter monster requires a serious crew and a disciplined captain. Many work bees, heavy shuttle craft and shuttles are needed to handle the immense cargo capabilities of the BCC. Despite the large size of this vessel, it is able to maintain a top cruising speed of warp four.

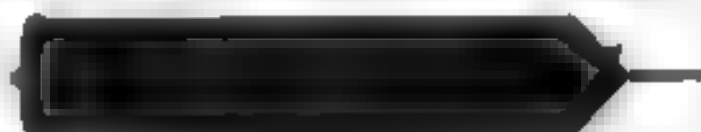
Physical Description: The overall design of the BCC is cylindrical in nature and has 78 (T15, M40) tractor beam mounting stations spaced equally around the interior for handling and securing cargo. The T1520/C18 bridge is centered in the top front center of the cargo bay, and the D18/A12 navigational deflector protects the top front center of the main hull. The BCC has a (B17, 30 IC) phaser but during transit the Work Bees are in their Killer Bee attachments. A small hangar bay is directly underneath the main section of the ship. For warp propulsion, two (SW52, 5x1) warp nacelles extend from the rear of the conical engineering section. The (M50, 16.4x) intermix chamber runs vertically down from the deflection crystals to the primary matter storage facility. The core can be jettisoned through the deflection crystals in an emergency. The material matter storage tanks are positioned for emergency jettisoning at the rear of the engineering section underneath the warp nacelles. For sub-light propulsion, three high output (HOBDE, 10BC) dual impulse units are located on the rear of the engineering section just above the warp nacelles. In the event of an emergency the warp nacelles can be jettisoned. The BCC can continue indefinitely without the warp nacelles but would require emergency assistance in the event of a warp core jettison.

Class Emblem

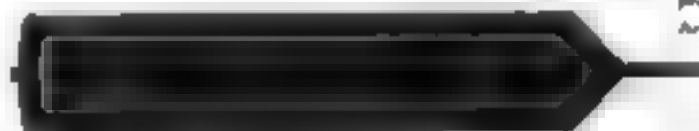


Ship Silhouettes

Total Target Area 183889.38 m²



Port Silhouette
Area 87340.48 m²



Top Silhouette
Area 87868.70 m²



Front Silhouette
Area 8838.20 m²



BULK CARGO CARRIER

KENTWOOD CLASS

SEPARATION ME

BRIDGE

PRIMARY HULL

WARP ENGINE NOZZLES (2)



PORT PROFILE

ACCESS DOORS

NAVIGATIONAL LIGHTS

INTERIOR CHAMBER



TRACTOR BEAM

SAMPLE CARGO

CARGO STORAGE AREA

METERS
0 50 100 200
SCALE 1:68700

CROSS SECTION

Statistics

Classification: Bulk Cargo Carrier

Category: Cargo Vessel

Class: Kentwood

Type: Class 2

Model: MK2-III

Naval Construction Contract: B1000

Number Proposed: 30

Number Constructed: 29

Number In Service: 22

Number Lost: 0

Dimensions:

Overall Dimensions (Meters):

Length: 27.75 m

Width: 218.88 m

Height: 22.16 m

Primary Hull Dimensions (Meters):

Length: 2.3 m

Width: 218.88 m

Height: 22.16 m

Secondary Hull Dimensions (Meters):

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters):

Length: 60.82 m

Width: 12.81 m

Height: 18.32 m

Displacement (Metric Tons):

Light: 159,467 mt

Standard: 36,9938 mt

Full Load: 4,652,07 mt

Performance: IM

Impulse Motor Dual Unit: UHDR1E/10CC

Impulse Engine Output: 7E 4 W

Impulse Power Index: 0.03

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 2.138 sec

0.25-0.50 Impulse: 3.082 sec

0.50-0.75 Impulse: 4.913 sec

0.75-Full Impulse: 6.145 sec

Warp Units: 2 Nozzle Units (SW52/1587)

Warp Engine Output: 3.02E 5 W

Warp Power Index: 0.03

Optimum Speed: 3

Max Safe Cruising: 4

Emergency Speed: 4.5

Max Speed: 4.7

Destructive Speed: 5

Acceleration Power: 3

Acceleration Times:

Warp 1: Warp 2: 8.350 sec

Warp 2: Warp 3: 10.160 sec

Warp 3: Warp 4: 38.417 sec

Warp 4: Warp 5: 55.245 sec

Warp 5: Warp 6: 58.355 sec

Warp 6: Warp 7: 53.817 sec

Warp 7: Warp 8: 81.215 sec

Warp 8: Warp 9: 7.15 sec

Warp 9: Warp 9.8: 260.349 sec

Warp 9.8: Warp 9.9: 501.824 sec

Warp 9.9: Warp 10: 625.472 sec

Duration (Years)

Standard: 28 Years

Maximum: 28 Years

Std. Ship Complement: 57

Officers: 10

Crew (Ranking Grade): 47

Troops: 0

Passengers: 38

Emergency condition: 1 8 203

Medical Facilities:

Doctors: 3

Nurses: 0

Operating Rooms: 2

Beds: 0

Laboratories:

Transporters Total: 24

1 Person: 0

2 Person: 0

3 Person: 0

12 Person: 0

22 Person: 1

Small Cargo: 50

Medium Cargo: 33

Large Cargo: 33

Super Cargo: 0

Bridges: 221

Sensors: 300

Tractor Beam:

Tow Capacity: 5.51E+08 km

Max Range: 7.1E+05 km

Cargo Specifications:

Standard Cargo Units: 50000

Cargo Capacity: 2500000 mt

Shuttleship Specifications:

Docking Ports:

Shuttleship Bays Total: 1

Small Bay: 0

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttleship Standard: 32

Work Deck: 12

Travel Pods: 4

Aquatic Shuttle: 1

Light Shuttle: 0

Standard Shuttle: 6

Heavy Shuttle: 0

Cargo Shuttle: 1

Shuttle Shuttle: 10

Killer Base: 0

Light Fighter: 0

Fighter: 0

Heavy Fighter: 0

Lifeline: 5

Turbolift (8 person): 6

Lifeline (10 person): 0

Lifeline (20 person): 0

Lifeline (30 person): 0

Cloaking Devices: 0

Sensor Index Value:

Planetary Survey: 0.2063

Orbital Survey: 0.4125

Short Range: 0.4.25

Long Range: 0.8250

Navigation: 0.9983

Special: 0.0080

Compass: 2

Type: Daystrom Duetronic IIk

Type: Daystrom Duetronic II

ECM Index: 0.80

Shield Rating:

Shield Index: 13.88

Shield Power: 53E+13 W

Refresh Rate: 4.84E+12 W

Breakdown Rate: 5.21E+2 W

Shield Dimensions (Meters):

Length: 907.83 m

Width: 324.88 m

Height: 333.24 m

Weapons:

Phase Power Index: 0.042

Photon Power Index: 0.000

Vessel Power Index: 0.02

Weapon Placement:

Beam (Phase): Total: 1 beam 2 each

Output: 5.01E+11 W 2 Beam W

Range: 2.50E+05 km

Rate of Fire: 20 ppm Cont

Forward Banks:

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhase): Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon): Total: 0 Bay

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

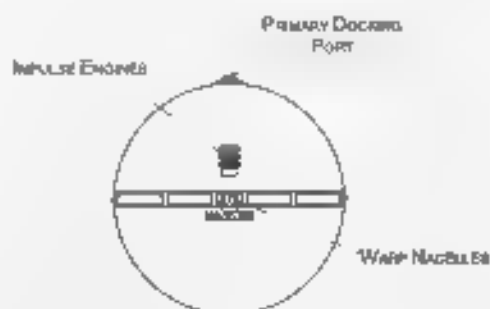
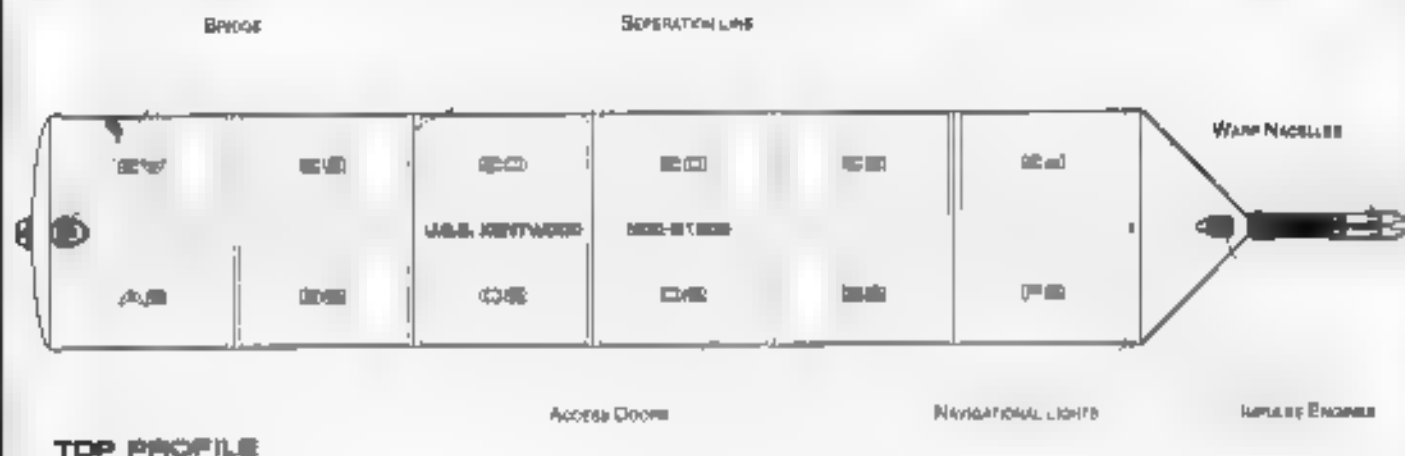
Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

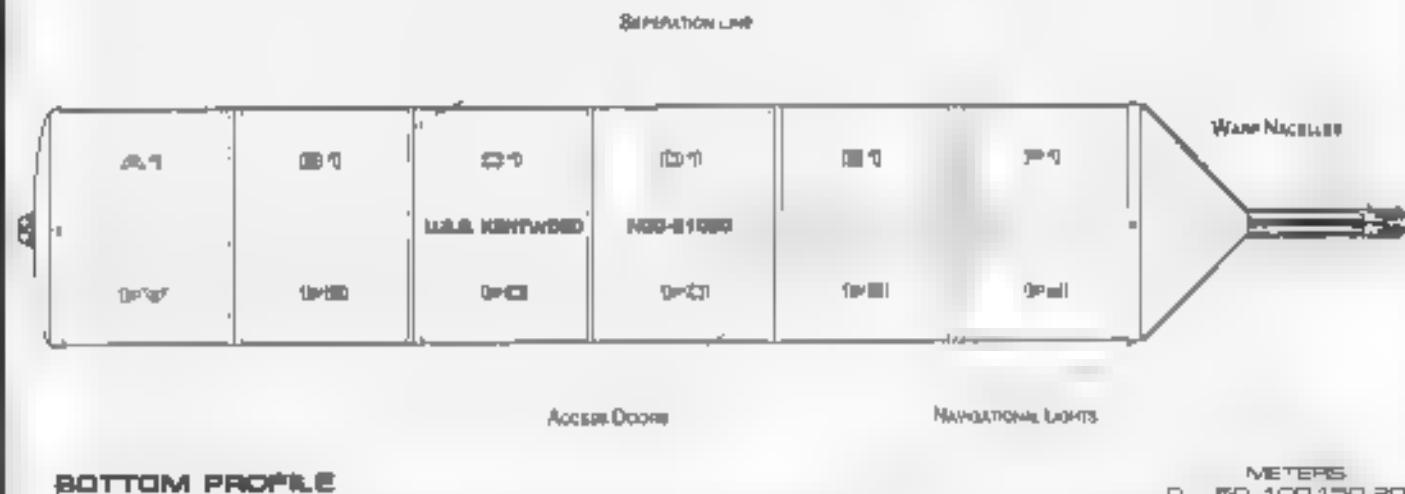
FEDERATION VESSEL

BULK CARGO CARRIER



• FRONT PROFILE

REAR PROFILE



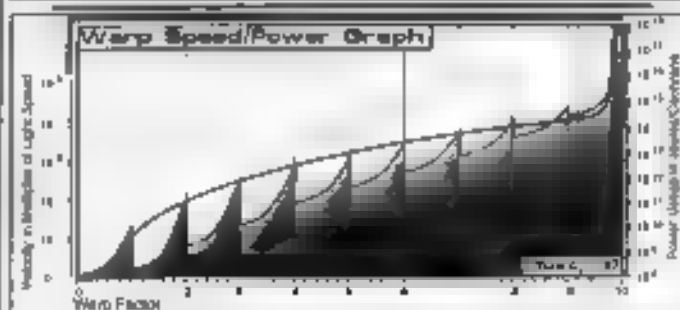
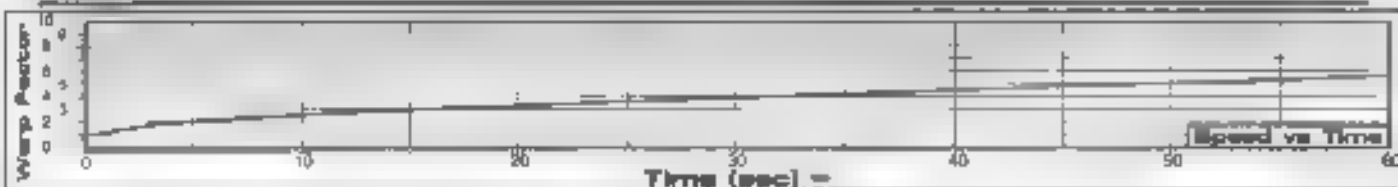
METERS
0 50 100 150 200



Tractor Beam Specifications

Primary T vector Beam Load Calculator

CLASSIFIED, LOST IN THE LINE OF DUTY, PROCEEDED ALL NAMES PRECEDED WITH U.S.S.



Field Length 30.00m
Field Width 30.00m
Field Height 30.00m



Front Warp Field Profile
Cross Section Area 207.12-00 m²

Port Warp Field Profile
Cross Section Area 95343.15 m²

Top Warp Field Profile
Cross Section Area 563341.81 m²

WARP FIELDS

SAM3 04:03:01:04

STAFFLEET REFERENCE MANUAL

KENTWOOD CLASS

FEDERATION VESSEL

CARGO DRONE



General Information

Specific Role: The Pershing class Cargo Drone is used to transport low priority cargo between inner Federation planets. Generally these vessels can be found navigating their way through commercial trade routes at warp six. The drone's turn around time at port is extremely fast since it does have a crew requiring leave or supplies.

Physical Description: The boxy construction of the Cargo Drone hides the efficiency of its design. The Central tower contains an auxiliary type D-35/C-45 bridge, a medium hangar bay and computer core. A SM52/122 high gas turbine array is mounted immediately forward of the central tower. The 12245/C10-4 primary hull consists mainly of storage with engineering section at the rear. The descending tower is the main cargo hold with hold number four and the light cargo hold located immediately forward. Two 1-N5/C8 navigational defensors are mounted at the front of an light cargo section. Holds two through five are located directly behind the lower tower in descending size. A tractor beam is mounted directly under hold number 5. The Mtk-26411 universal chamber is located between the two pylons with the spatter/antimatter facilities at the rear. For single propulsion two Bld-5F/414 single impulse drives are mounted to either side of the rear section. For warp propulsion two SW52-5C10 warp nacelles are mounted to either side of the engineering section on 121/70-2F pylons. No provisions have been made for jettisoning. In warp core or nacelle failure crew safety is not a concern. In the event of a warp core breach or catastrophic engine damage a warning is broadcast on all frequencies describing the danger and distance required for safety purposes.

Class Emblem



Ship Silhouettes

Total Target Area 47441.00 m²



Top Silhouette

Area 25021.66 m²



Area 13187.88 m²



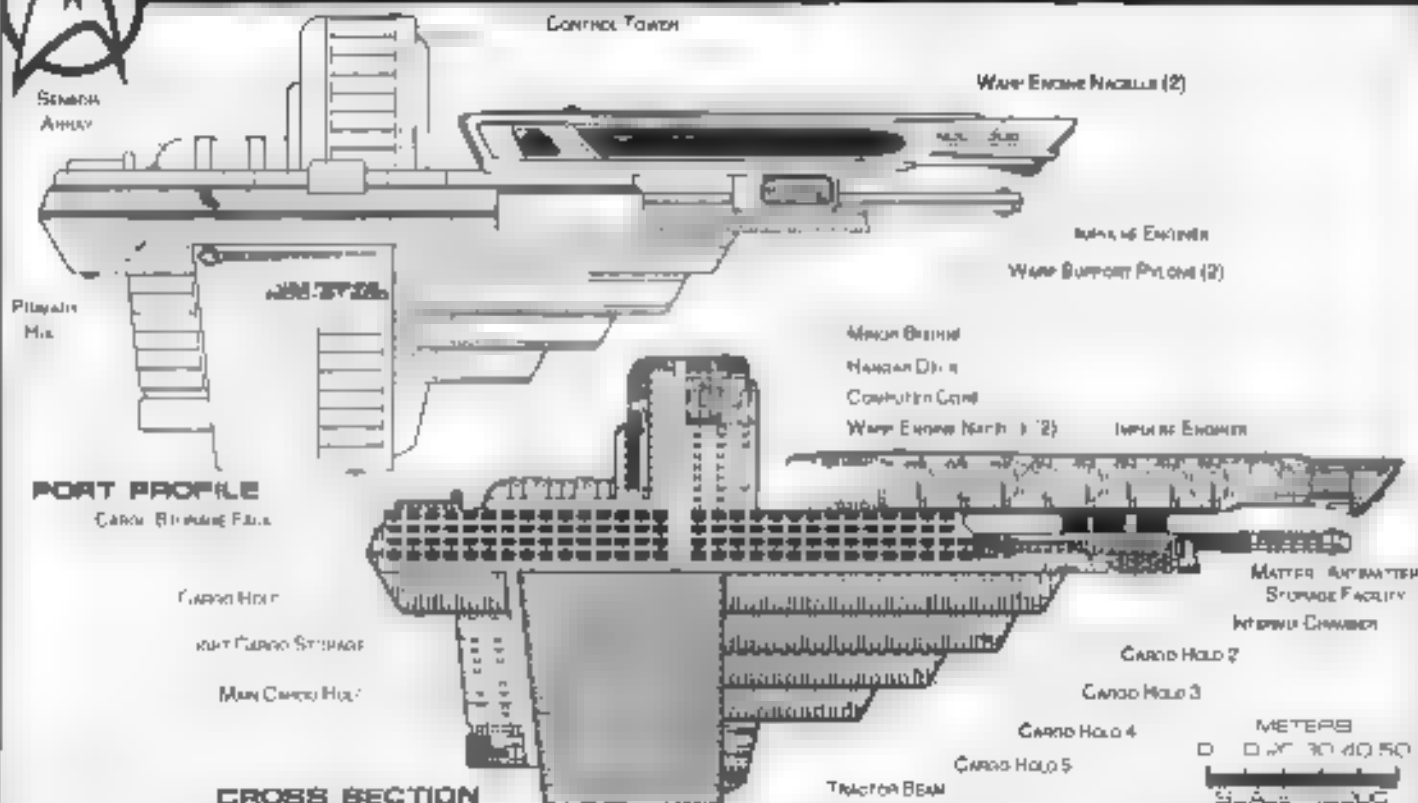
Front Silhouette

Area 9211.26 m²



CARGO DRONE

PERSHING CLASS



Statistics

Classification: Cargo Drone

Category: High Visual

Class: Pershing

Type: Class 6

Model: MKS IV

Naval Construction Contract: G1400

Number Produced: 90

Number Constructed: 90

Number in Service: 86

Number Lost: 2

Dimensions:

Overall Dimensions (Meters)

Length: 161.37 m

Width: 101.60 m

Height: 61.18 m

Primary Hull Dimensions (Meters)

Length: 140.18 m

Width: 104.60 m

Height: 71.18 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: 124.18 m

Height: N/A m

Warp Hull Dimensions (Meters)

Length: 141.18 m

Width: 121.18 m

Height: 111.18 m

Displacement (Metric Tons)

Light: 14,770 m

Standard: 14,770 m

Full Load: 24,440 m

Performance:

Impulse (Units: Dps) Unit: 114,144-4.18

Impulse Engine Output: 114,144 W

Impulse Power Index: 0.62

Max Cruising: 0

Acceleration Rate:

0.00-0.25 Impulse: 0.427 sec

0.25-0.50 Impulse: 0.673 sec

0.50-0.75 Impulse: 0.888 sec

0.75-Full Impulse: 23 sec

Warp Units: 2 Nuclear Units 'SW52' SCDI

Warp Engine Output: 3,024 + 5 W

Warp Power Index: 0.52

Optimum Speed: 4

Max Safe Cruising: 6

Emergency Speed: 6.5

Max Speed: 7

Destructive Speed: 7.2

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.187 sec

Warp 2 Warp 3: 0.69 sec

Warp 3 Warp 4: 2.24 sec

Warp 4 Warp 5: 1.168 sec

Warp 5 Warp 6: 3.588 sec

Warp 6 Warp 7: 3.888 sec

Warp 7 Warp 8: 4.88 sec

Warp 8 Warp 9: 7.38 sec

Warp 9 Warp 10: 6.887 sec

Warp 10 Warp 11: 18.77 sec

Warp 11 Warp 12: 18.106 sec

Duration (Years)

Standard: 20 Years

Maximum: 28 Years

Mid-Ship Complement: 0

Officer: 0

Crew (Kneigh Grade): 0

Troops: 0

Passengers: 0

Emergency condition: +0

Medical Facilities:

Dormitory: 0

Nurses: 0

Operating Room: 0

Beds: 0

Laboratories: 1

Transports Total: 6

1 Person: 0

2 Person: 0

4 Person: 4

12 Person: 0

32 Person: 0

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

Bridge: 3

Applications: 7

Tractor Beams:

Yow Capacity: 3.84E+05 m

Max Range: 18E+05 km

Cargo Specifications:

Standard Cargo Units: 3500

Cargo Capacity: 5000 m

Shuttlecraft Specifications:

Docking Ports:

Shuttlecraft Bays Total: 1

Small Bay:

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 0

Work Area: 0

Travel Pods: 0

Aquatic Shuttle: 0

Light Shuttle: 0

Standard Shuttle: 0

Heavy Shuttle: 0

Cargo Shuttle: 0

Assault Shuttle: 0

Killer Bee: 0

Light Fighter: 0

Fighter: 0

Heavy Fighter: 0

Lifeboats: 3

Turbolift (0 percent): 2

Lifboat (10 percent): 0

Lifboat (30 percent): 0

Lifboat (50 percent): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.0413

Stellar Survey: 0.4125

Short Range: 0.0825

Long Range: 0.4050

Navigation: 0.0000

Special: 0.0000

Comms: 2

Type: Daystrom Electronic III

Type: Daystrom Electronic II

ECM Index: 0.10

Shield Rating:

Shield Index: 0.87

Holdoff Power: 9.8 E+ W

Refresh Rate: 2.78E W

Breakdown Rate: 3.35E+ W

Shield Dimensions (Meters):

Length: 18.05 m

Width: 180.24 m

Height: 78.52 m

Weapons:

Phaser Power Index: 0.000

Photon Power Index: 0.000

Vessel Power Index: 0.000

Weapon Placement:

Beam (Phasers) Total: 0 banks

Output: N/A

Range: N/A km

Rate of Fire: N/A

Forward Banks: 0

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (Megaphasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Stock: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

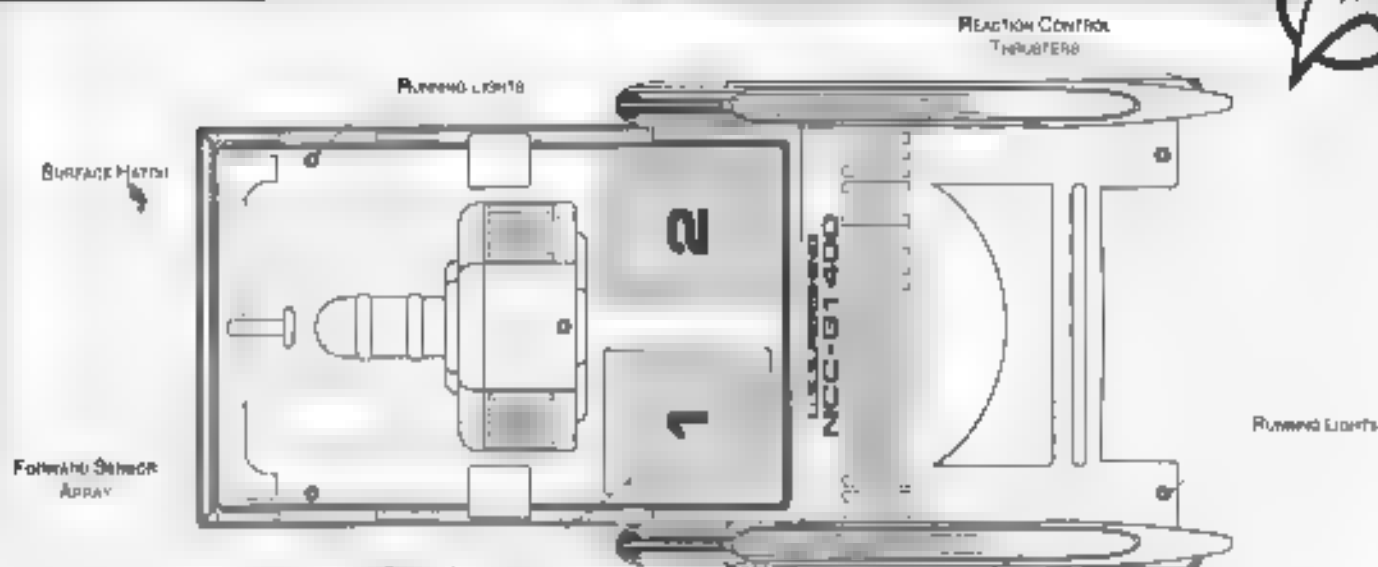
Starboard Bay: 0

Upper Bay: 0

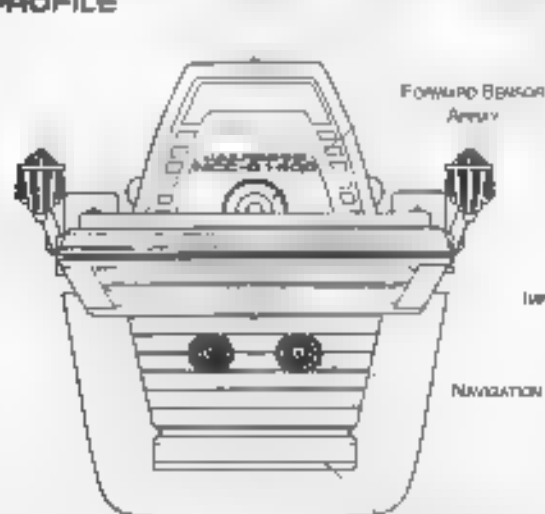
Lower Bay: 0

REFERENCE VESSEL

CARGO DRONE



TOP PROFILE

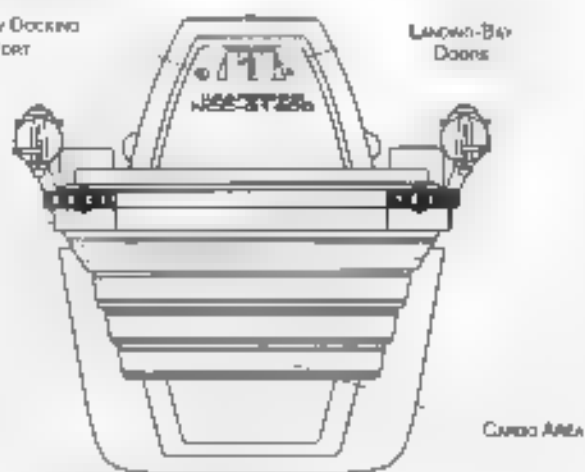


FRONT PROFILE

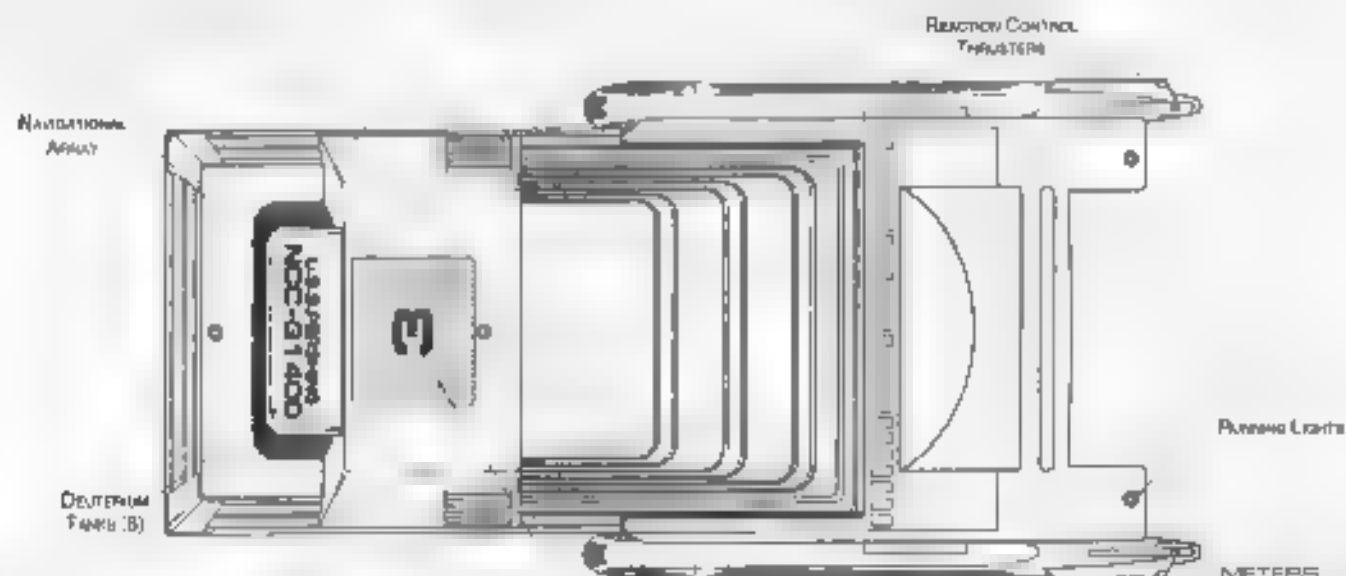
Warp Engine Nacelle (2)

Primary Docking Port

Launch-Bay Doors

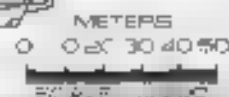


REAR PROFILE



BOTTOM PROFILE

Lower Cargo Hatch





CARGO DRONE

Ship Names

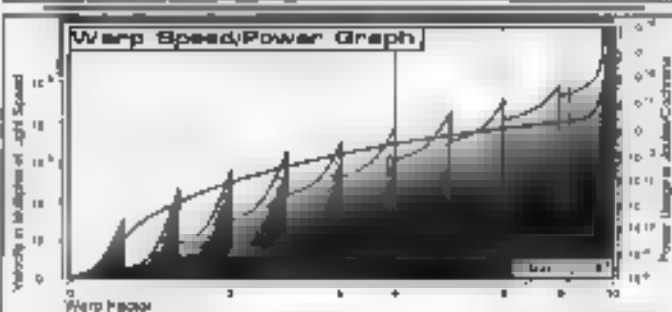
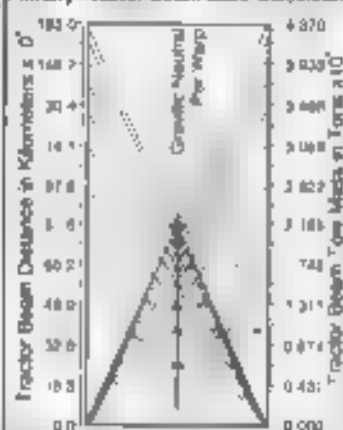
THE FOLLOWING SHIPS OF THE NX-B-IV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2255.2

PERSHNG01	NCC G 400	PERSHNG02	NCC G 420	PERSHNG03	NCC G 450	PERSHNG04	NCC G 470
PERSHNG05	NCC G 480	PERSHNG06	NCC G 490	PERSHNG07	NCC G 500	PERSHNG08	NCC G 510
PERSHNG09	NCC G 520	PERSHNG10	NCC G 530	PERSHNG11	NCC G 540	PERSHNG12	NCC G 550
PERSHNG13	NCC G 560	PERSHNG14	NCC G 570	PERSHNG15	NCC G 580	PERSHNG16	NCC G 590
PERSHNG17	NCC G 600	PERSHNG18	NCC G 610	PERSHNG19	NCC G 620	PERSHNG20	NCC G 630
PERSHNG21	NCC G 640	PERSHNG22	NCC G 650	PERSHNG23	NCC G 660	PERSHNG24	NCC G 670
PERSHNG25	NCC G 680	PERSHNG26	NCC G 690	PERSHNG27	NCC G 700	PERSHNG28	NCC G 710
PERSHNG29	NCC G 720	PERSHNG30	NCC G 730	PERSHNG31	NCC G 740	PERSHNG32	NCC G 750
PERSHNG33	NCC G 760	PERSHNG34	NCC G 770	PERSHNG35	NCC G 780	PERSHNG36	NCC G 790
PERSHNG37	NCC G 800	PERSHNG38	NCC G 810	PERSHNG39	NCC G 820	PERSHNG40	NCC G 830
PERSHNG41	NCC G 840	PERSHNG42	NCC G 850	PERSHNG43	NCC G 860	PERSHNG44	NCC G 870
PERSHNG45	NCC G 880	PERSHNG46	NCC G 890	PERSHNG47	NCC G 900	PERSHNG48	NCC G 910
PERSHNG49	NCC G 920	PERSHNG50	NCC G 930	PERSHNG51	NCC G 940	PERSHNG52	NCC G 950
PERSHNG53	NCC G 960	PERSHNG54	NCC G 970	PERSHNG55	NCC G 980	PERSHNG56	NCC G 990
PERSHNG57	NCC G 1000	PERSHNG58	NCC G 1010	PERSHNG59	NCC G 1020	PERSHNG60	NCC G 1030
PERSHNG61	NCC G 1040	PERSHNG62	NCC G 1050	PERSHNG63	NCC G 1060	PERSHNG64	NCC G 1070
PERSHNG65	NCC G 1080	PERSHNG66	NCC G 1090	PERSHNG67	NCC G 1100	PERSHNG68	NCC G 1110
PERSHNG69	NCC G 1120	PERSHNG70	NCC G 1130	PERSHNG71	NCC G 1140	PERSHNG72	NCC G 1150
PERSHNG73	NCC G 1160	PERSHNG74	NCC G 1170	PERSHNG75	NCC G 1180	PERSHNG76	NCC G 1190
PERSHNG77	NCC G 1200	PERSHNG78	NCC G 1210	PERSHNG79	NCC G 1220	PERSHNG80	NCC G 1230
PERSHNG81	NCC G 1240	PERSHNG82	NCC G 1250	PERSHNG83	NCC G 1260	PERSHNG84	NCC G 1270
PERSHNG85	NCC G 1280	PERSHNG86	NCC G 1290	PERSHNG87	NCC G 1300	PERSHNG88	NCC G 1310
PERSHNG89	NCC G 1320	PERSHNG90	NCC G 1330	PERSHNG91	NCC G 1340	PERSHNG92	NCC G 1350
PERSHNG93	NCC G 1360	PERSHNG94	NCC G 1370	PERSHNG95	NCC G 1380	PERSHNG96	NCC G 1390
PERSHNG97	NCC G 1400	PERSHNG98	NCC G 1410	PERSHNG99	NCC G 1420	PERSHNG00	NCC G 1430

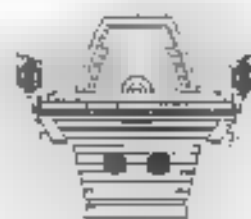
CLASS SHIP, LOST IN THE LINE OF DUTY. PROPOSED. ALL NAMES PREFIXED WITH V.S.S.

Tractor Beam Specifications

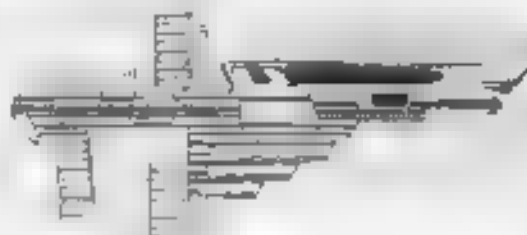
Primary Tractor Beam Load Calculator



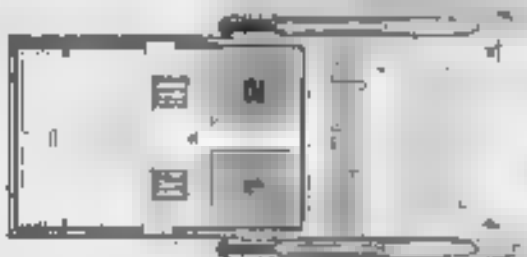
Field Length: 600.00m
Field Width: 172.87m
Field Height: 188.87m



Front Warp Field Profile
Cross Section Area: 17758.80 m²



Port Warp Field Profile
Cross Section Area: 51888.24 m²



Top Warp Field Profile
Cross Section Area: 78088.80 m²

WARP FIELDS

SM3 D4:03:02:04

STARFLEET REFERENCE MANUAL

PERSHING CLASS

FEDERATION VESSEL

FREIGHTER



General Information

Specific Role: The Ostoris Class Freighter is used primarily for the shipment of exotic food stuffs and medical supplies not produced by many worlds. This vessel, commercially operated by many races, can be found between Federation rim colonies and starbases. The self-contained warp core/nacelles make this one of the latest vessels in the Federation.

Physical Description: The (BF5/C-F2) bridge is centered on top of the freighter's wedge shaped hull. A medium hangar bay forward of the bridge protrudes from the slope of the front hull. A (SQ8/A.0) rectangular navigational deflector is mounted in the rear of vessel. Standard cargo modules are loaded through forward lock underneath the navigational deflector. Behind the bridge in the rear half of the vessel is the main cargo hold with six large cargo decks in top and six in bottom. This cargo vessel has two (L12-A-2) engine nozzles and no motion computers. The (R650E/C-F) impulse drive is located at the (C-200) section of the main cargo hold lower in rear cargo half area. The self contained (SC-3571-450) warp core nacelles can be jettisoned in an emergency and the freighter can continue on impulse until its well is depleted.

Class Emblem

Freighter
Ostoris Class



Ship Silhouettes

Total Target Area 38837.66 m²



Top Silhouette

Area 31887.77 m²



Port Silhouette

Area 18237.63 m²



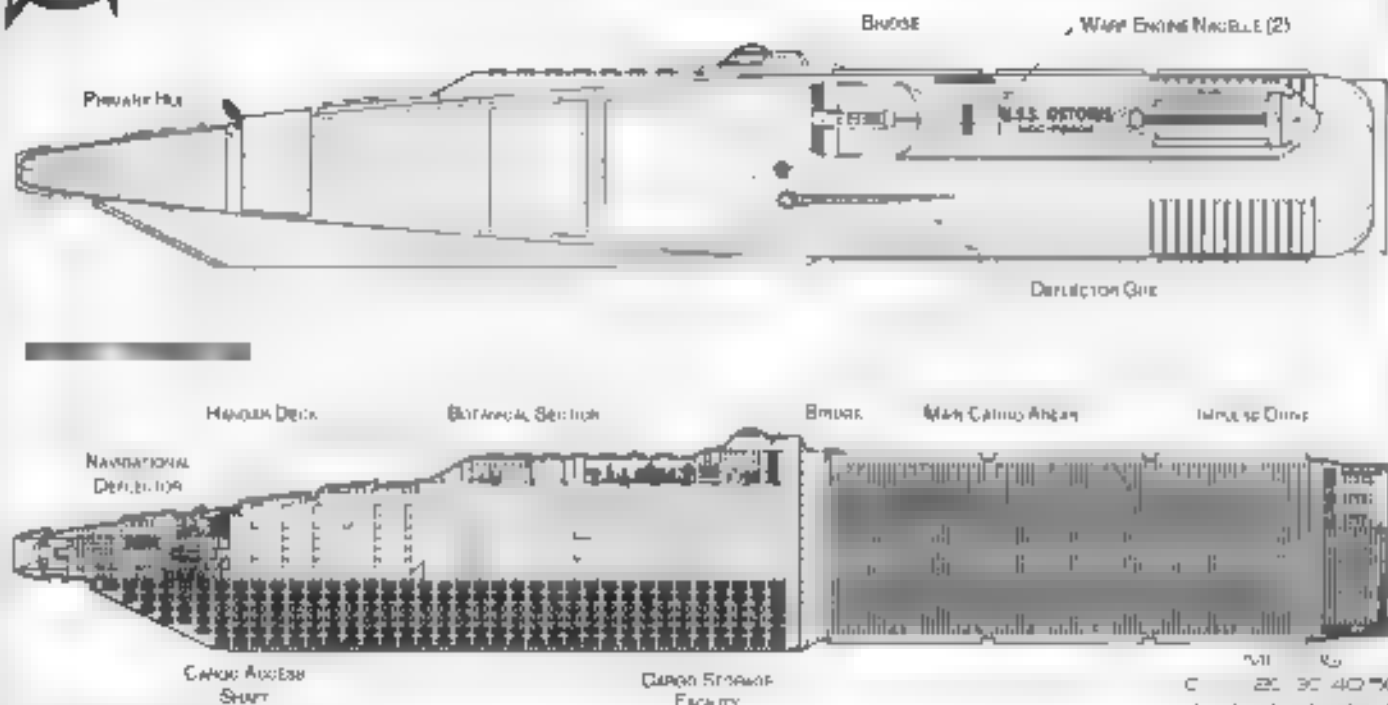
Front Silhouette

Area 4899.86 m²



FREIGHTER

OSTORIS CLASS



CROSS SECTION

Statistics

Classification: Freighter

Category: Cargo Vessel

Class: Ostoris

Type: Class 2

Model: MK2-VI

Naval Construction Contract: #2600

Number Proposed: 98

Number Constructed: 88

Number in Service: 97

Number Lost:

Designations:

Overall Dimensions (Meters)

Length: 383.64 m

Width: 38 m

Height: 58.85 m

Primary Hull Dimensions (Meters)

Length: 363.64 m

Width: 38.84 m

Height: 58.61 m

Secondary Hull Dimensions (Meters)

Length: 40 m

Width: 0 m

Height: 0 m

Warp Unit Dimensions (Meters)

Length: 381.11 m

Width: 45.01 m

Height: 47.47 m

Displacement (Metric Tons)

Light: 170,000 mt

Standard: 407,000 mt

Full Load: 454,400 mt

Performance: mt

Impulse Units: Dual Unit (100 JOE/mph)

Impulse Engines Output: 7,000E+10 W

Impulse Power Index: 0.28

Max Cruising:

Acceleration Rate:

0.00-0.25 Impulse: 0.785 sec

0.25-0.50 Impulse: 736 sec

0.50-0.75 Impulse: 649 sec

0.75-Full Impulse: 2,762 sec

Warp Delta: Max Delta (150/35/45F)

Warp Engines Output: 3,020E+10 W

Warp Power Index: 0.29

Optimum Speed: 4

Max Safe Cruising: 5.8

Emergency Speed: 7

Max Speed: 7.4

Destructive Speed: 7.5

Acceleration Power: 3

Acceleration Times:

Warp 1: Warp 2: 3.10 sec

Warp 2: Warp 3: 13 sec

Warp 3: Warp 4: 4.298 sec

Warp 4: Warp 5: 5.84 sec

Warp 5: Warp 6: 5.608 sec

Warp 6: Warp 7: 7.18 sec

Warp 7: Warp 8: 9.83 sec

Warp 8: Warp 9: 10.06 sec

Warp 9: Warp 10: 20.24 sec

Warp 10: Warp 11: 33.41 sec

Warp 11: Warp 12: 64.96 sec

Rotation (Clock)

Standard: 0.00

Maximum: 24 Years

Std. Units Complement: 07

Officers: 0

Crew (Design Grade): 47

Troops:

Passengers: 07

Emergency condition: + 203.36

Medical Facilities:

Doctors: 4

Nurses: 5

Operating Rooms: 2

Beds:

Laboratories: 2

Transmitters Total: 60

1 Person: 0

2 Person: 0

3 Person: 0

12 Person: 0

22 Person: 0

Small Cargo: 27

Medium Cargo: 27

Large Cargo: 0

Super Cargo: 0

Bridge: 25

Replicators:

Traitor Beams:

Tow Capacity: 3.85E+06 mt

Max Range: 9.89E+04 km

Cargo Specifications:

Standard Cargo Units: 8000

Cargo Capacity: 100000 mt

Shuttlecraft Specifications:

Docking Ports: 2

Shuttlecraft Bays Total:

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 18

Work Pods:

Travel Pods: 4

Aquatic Shuttle:

Light Shuttle:

Standard Shuttle: 8

Heavy Shuttle: 1

Cargo Shuttle:

Assault Shuttle: 0

Idle Pods: 0

Light Fighter: 0

Fighters: 0

Heavy Fighters: 0

Lifeboats:

Turbolift (8 person): 0

Lifboat (10 person): 0

Lifboat (20 person): 0

Lifboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.2080

Stellar Survey: 1.4126

Short Range: 0.475

Long Range: 0.8250

Navigation: 0.4943

Special: 0.33

Communications:

Type: Daystrom Electronics 11

Type: Daystrom Electronics 6

ECM Index: 0.50

Shield Rating:

Shield Index: 87

Holdoff Power: 85E+12 W

Rebreak Rate: 5.35E+10 W

Breakdown Rate: 6.40E+10 W

Shield Dimensions (Meters)

Length: 545.46 m

Width: 203.66 m

Height: 0.30 m

Weapons:

Phaser Power Index: 0.083

Photon Power Index: 0.000

Vessel Power Index: 0.042

Weapon Placement:

Beam (Phasers) Total: 2 banks 2 each

Output: 31E+12 W 2.6E+12 W

Range: 2.10E+05 km

Rate of Fire: 20 yph/ Gun

Forward Banks: 0

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks:

Lower Banks:

Beam (Megaphasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Block: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

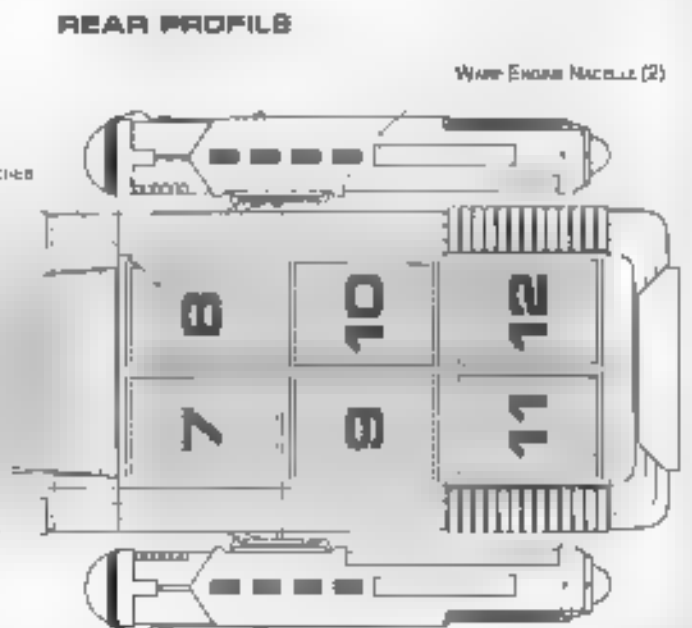
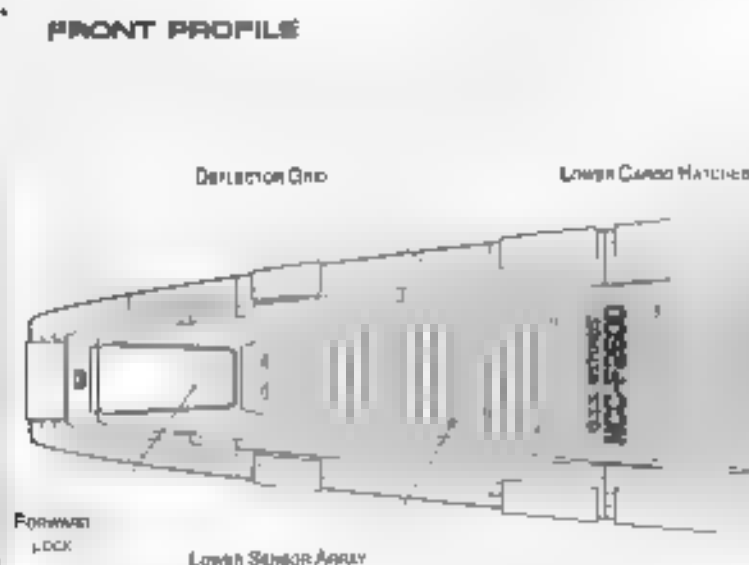
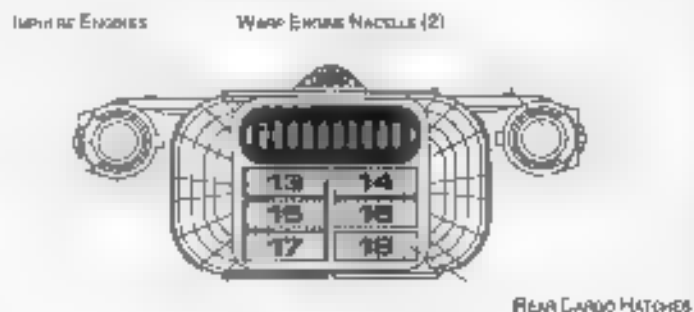
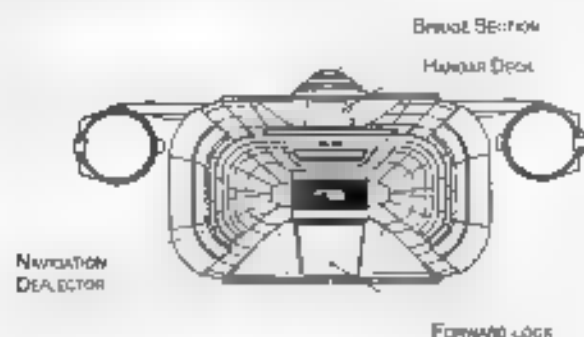
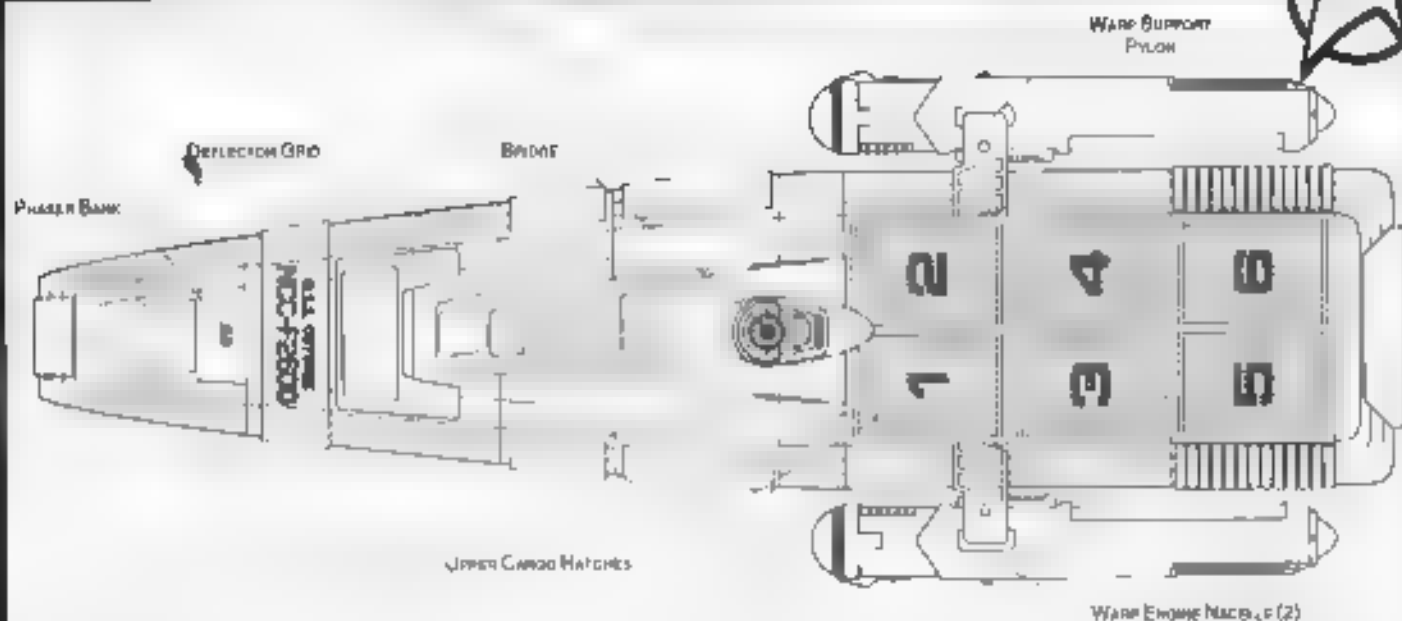
Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

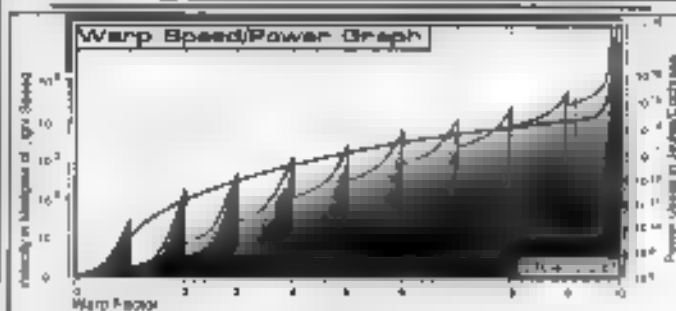
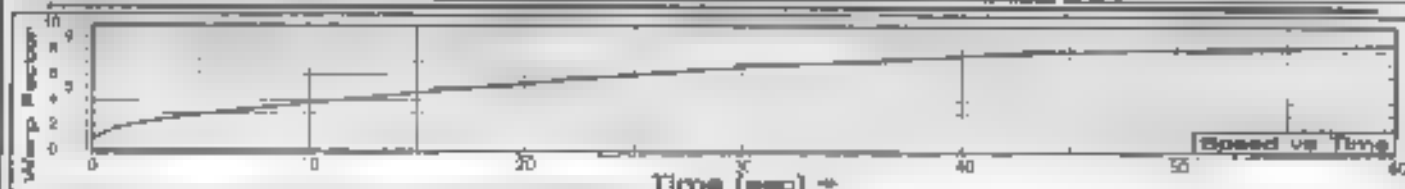
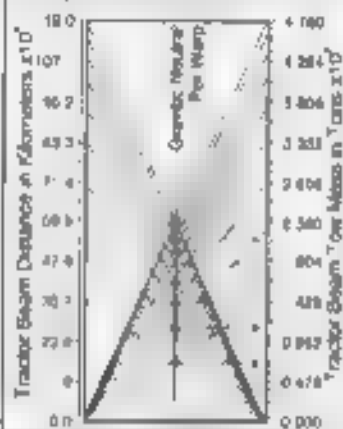
FREIGHTER



METERS
0 10 20 30 40 50

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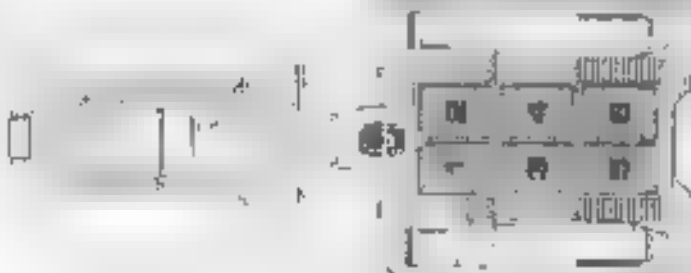
Primary nuclear Beam and Calculation



Field Length 573.02m
Field Width 77.84m
Field Height 60.53m



Front Warp Field Profile
Cross Section Area 18502.66 m²

Port Warp Field Profile
Post Section Area 65553.07 m²

Top Wary Field Profile
Cross Section Area 80443 70 m²

WAPP FIELDS

SAM3 04:03:03:04

STABFLEET REFERENCE MANUAL

OSTONIA CLASS

FEDERATION VESSEL

SUPPLY TENDER

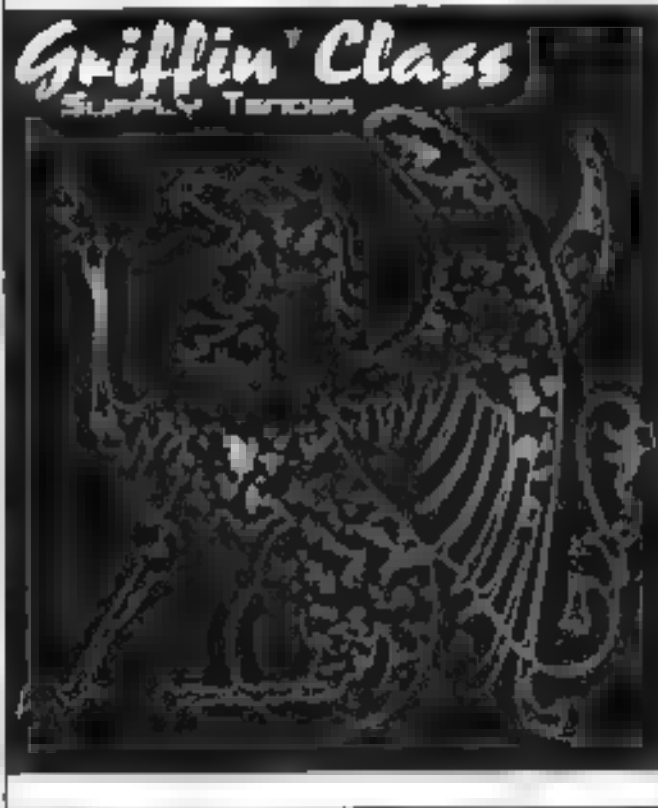


General Information

Specific Role: The Supply Tender is used primarily for the shipment of starship maintenance related cargo and parts. The Griffin Class supply tenders are often crewed by em star fleet personnel knowledgeable about the repair and maintenance of many Federation vessels. In addition to hard-to-replicate starship parts, foodstuffs and other items are conveyed for trade and sale in exotic ports of call. Hundreds of supply tenders are also used in the private and commercial sectors since it is simple matter to convert the large cargo-bays for a variety of uses.

Physical Description: The (134 5/L F2) bridge is centered on top of the vessel over the shuttle bay on the front slope of the hull. The (11687A 0) trapezoidal navigational deflector is situated on the nose of vessel. Sensor arrays are positioned on either side of the vessel just aft of bay three. The Supply Tender has eight large cargo doors, one on each end and six underneath the Langer Bay. Cargo bay two is located directly forward of the Langer bay. Standard cargo machines are loaded through forward lock underneath the navigational deflector. This class vessel has four (12 30-20) phaser banks and no photon torpedoes. The (14850F76-0F) impulse drive is located at the top rear section of the hull, cargo hold above the rear cargo hatch. The self-contained (SC3574-45F) warp core/nacelles can be jettisoned in an emergency and the tender can continue on impulse until its fuel supply is depleted.

Class Emblem



Ship Silhouettes

Total Target Area: 52378.88 m²



Top Silhouette

Area: 30186.33 m²



Port Silhouette

Area: 17675.88 m²



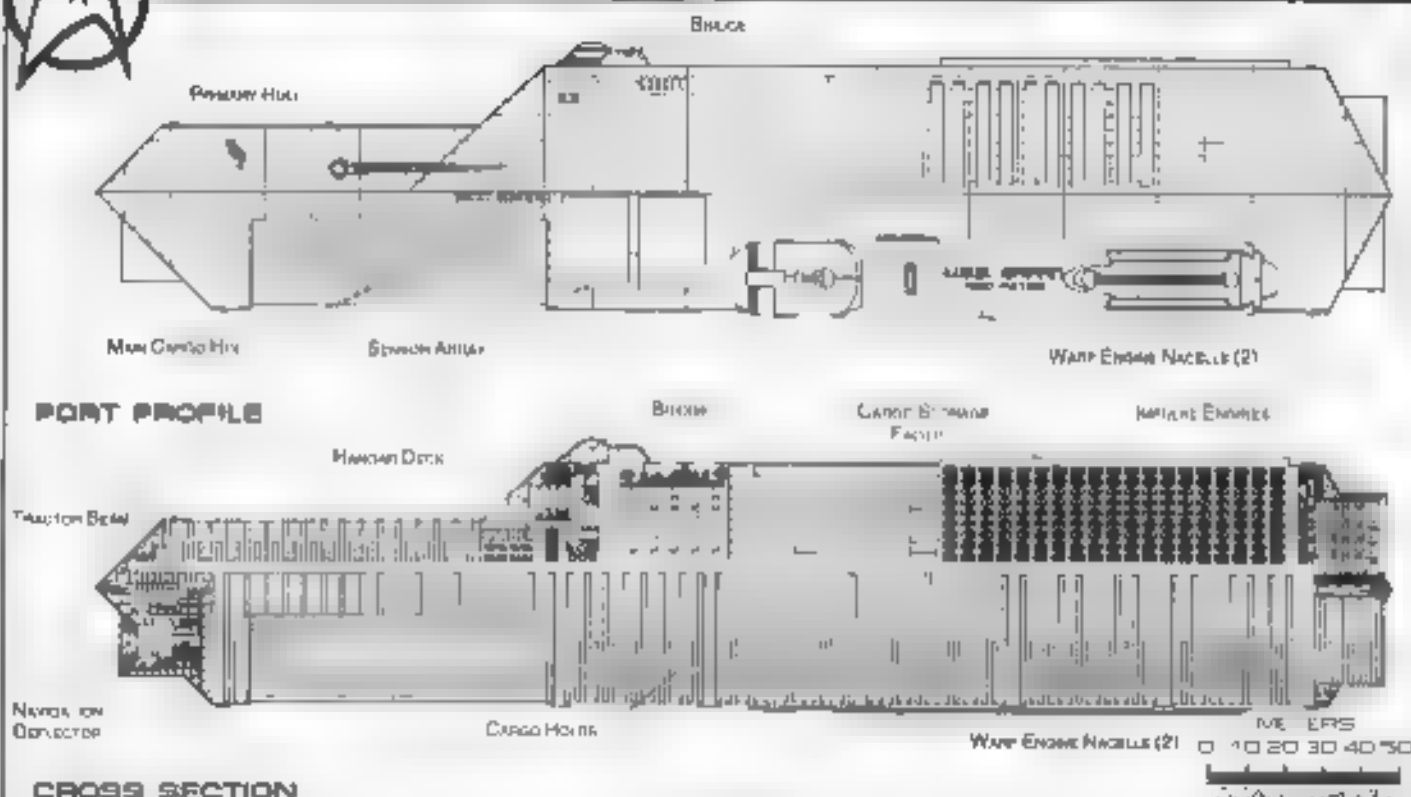
Front Silhouette

Area: 4516.67 m²



SUPPLY TENDER

GRAFFIN CLASS



CROSS SECTION

Statistics

Classification: Supply Tender

Category: Cargo Vessel

Class: Griffin

Type: Cargo

Model: 4821V

Naval Construction Contract: F4100

Number Proposed: 62

Number Constructed: 62

Number in Service: 60

Number Lost: 2

Dimensions

Overall Dimensions (Meters)

Length: 475.86 m

Width: 85.36 m

Height: 68.89 m

Primary Hull Dimensions (Meters)

Length: 321.66 m

Width: 85.36 m

Height: 67.91 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: N/A m

Height: N/A m

Warp Core Dimensions (Meters)

Length: 110.0 m

Width: 45.0 m

Height: 41.47 m

Displacement (Metric Tons)

Light: 45,100 mt

Standard: 48,000 mt

Full Load: 50,000 mt

Performance: mt

Impulse Drive: Dual Dual (JRF500B-IF)

Impulse Engine Output: 150E+13 W

Impulse Power Index: 0.24

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.945 sec

0.25-0.50 Impulse: 487 sec

0.50-0.75 Impulse: 985 sec

0.75-Full Impulse: 2,482 sec

Warp Units: 2 Nacelle Jnts (GC35/ 45F)

Warp Engine Output: 3.02E+5 W

Warp Power Index: 0.23

Optimum Speed: 4

Max Safe Cruising: 6.5

Emergency Speed: 6.8

Max Speed: 7

Destructive Speed: 7.2

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.655 sec

Warp 2 Warp 3: 368 sec

Warp 3 Warp 4: 5.73 sec

Warp 4 Warp 5: 438 sec

Warp 5 Warp 6: 7.18 sec

Warp 6 Warp 7: 6.603 sec

Warp 7 Warp 8: 1.029 sec

Warp 8 Warp 9: 16.775 sec

Warp 9 Warp 9.5: 16.065 sec

Warp 9.5 Warp 10: 40.612 sec

Warp 10 Warp 10.5: 64.217 sec

Duration (Years)

Standard: 4444

Maximum: 78 Years

Ed. Ship Complement: 12

Officers: 4

Crew (Ensign Grade): 93

Troops: 0

Passengers: 39

Emergency condition: + 191 R2

Medical Facilities:

Doctors: 2

Nurses: 2

Operating Rooms: 0

Beds: 5

Laboratories: 15

Transporters Total: 60

1 Person: 0

2 Person: 0

3 Person: 0

4 Person: 0

5 Person: 0

6 Person: 0

7 Person: 0

8 Person: 0

9 Person: 0

10 Person: 0

11 Person: 0

12 Person: 0

13 Person: 0

14 Person: 0

15 Person: 0

Bridge: 30

Replicators: 8

Tractor Beams:

Tow Capacity: 4.2E+06 mt

Max Range: 1.20E+05 km

Cargo Specification:

Standard Cargo Units: 8000

Cargo Capacity: 16000 mt

Shuttlecraft Specifications:

Docking Ports:

Shuttlecraft Bays Total:

Small Bay: 0

Medium Bay: 1

Large Bay: 1

Super Bay: 0

Shuttlecraft Standard: 16

Work Bays: 2

Travel Pods: 2

Aquatic Shuttle:

Light Shuttle: 16

Standard Shuttle: 8

Heavy Shuttle: 1

Cargo Shuttle:

Assault Shuttle: 0

Miner Bays: 0

Light Fighter: 0

Fighter: 0

Heavy Fighter: 0

Lifeboats:

Turbolift (8 person): 12

Lifeboat (10 person): 10

Lifeboat (20 person): 0

Lifeboat (30 person): 0

Cloaking Devices:

Sensor Index Values:

Planetary Survey: 0.2083

Stellar Survey: 0.4.25

Short Range: 0.4125

Long Range: 0.8250

Navigation: 0.4925

Special: 0.2180

Comms: 2

Type: Daystrom Dectronic II

Type: Daystrom Dectronic II

ECM Index: 0.50

Shield Rating:

Shield Index: 7

Weldoff Power: 1.3 E+2 W

Refresh Rate: 3.73E+1 W

Breakdown Rate: 4.47E+11 W

Shield Dimensions (Meters)

Length: 488.48 m

Width: 158.04 m

Height: 03.49 m

Weapons:

Phaser Power Index: 0.125

Photon Power Index: 0.000

Vesical Power Index: 0.063

Weapon Placement:

Banks (Phasers) Total: 3 banks 2 each

Output: 5.00E W 2.0E W

Range: 2.60F+05 km

Rate of Fire: 50 rpm Cont

Forward Banks:

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 1

Lower Banks: 1

Beam (Megaphasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

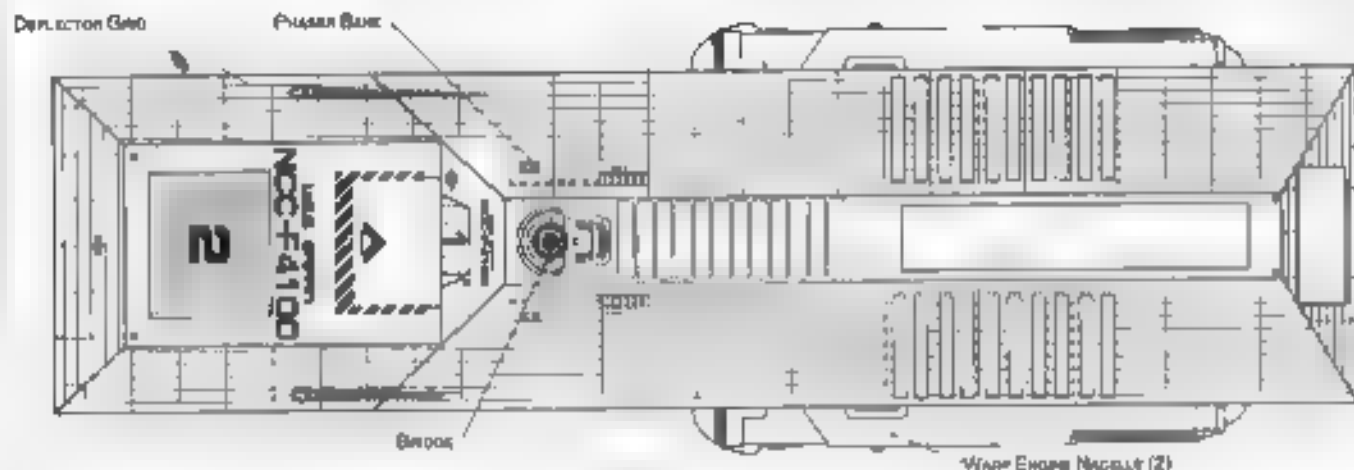
Starboard Bay: 0

Upper Bay: 0

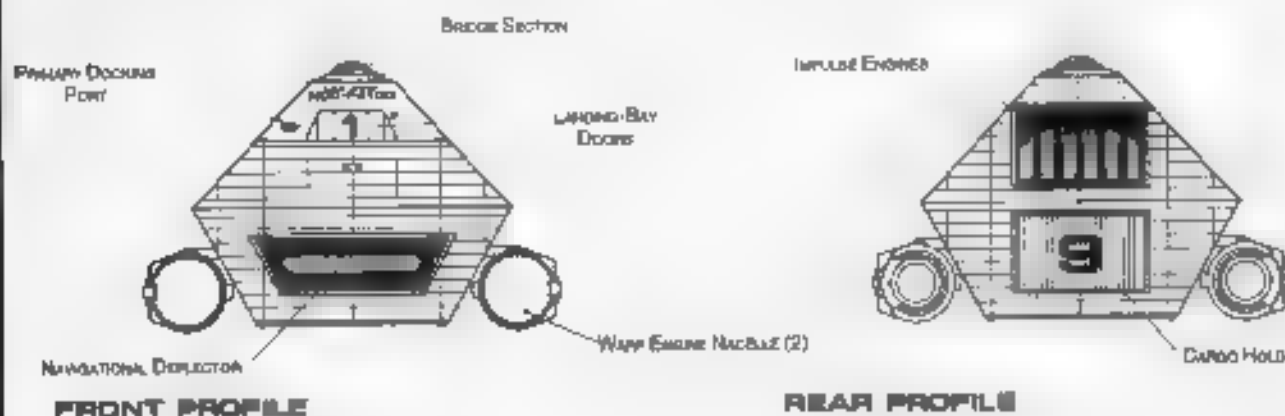
Lower Bay: 0

FEDERATION VESSEL

SUPPLY TENDER

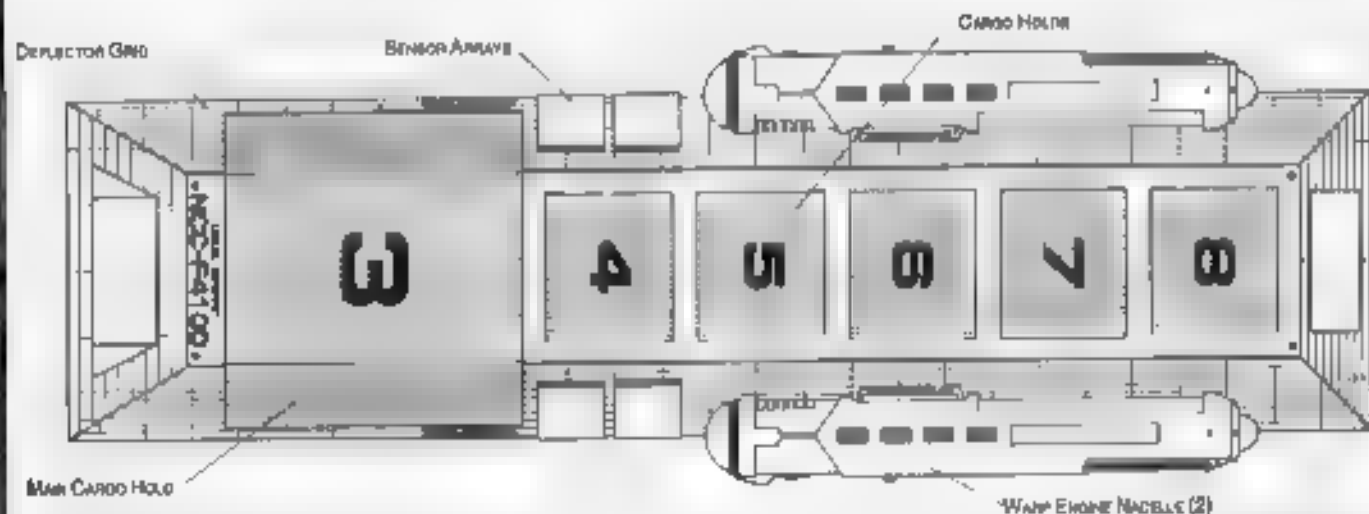


TOP PROFILE

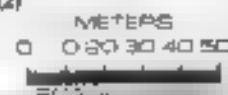


FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE





SUPPLY TENDER

Ship Names

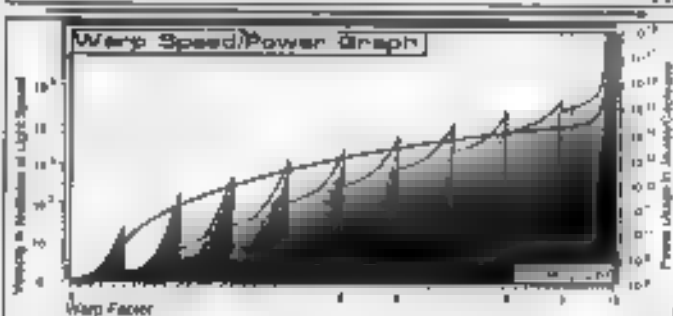
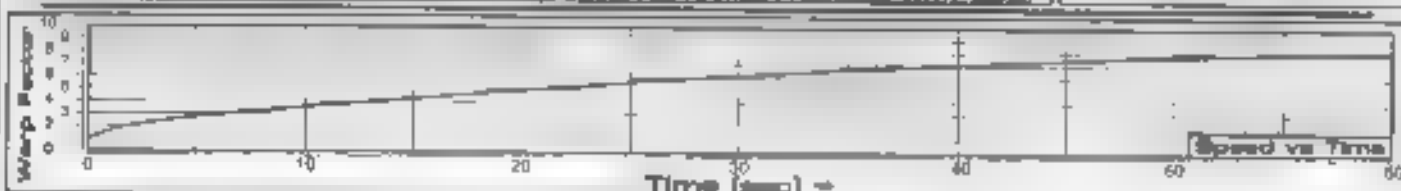
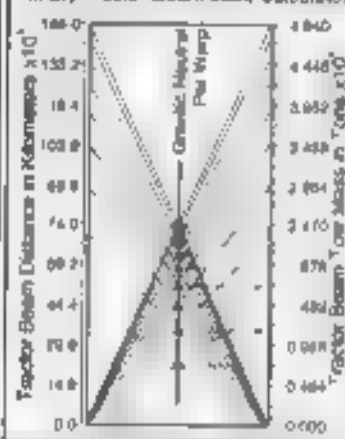
THE FOLLOWING SHIPS OF THE MKS-IV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2278.2

ADAMICK NCC-F4142	BRASSON NCC-F4143	MILL DY NCC-F4144	WASON NCC-F4145
ALPHAI NCC-F4146	OLIM NCC-F4147	MELIA NCC-F4148	WATSON NCC-F4149
ALP TPO NCC-F4150	MAKAN NCC-F4151	MUSCHALEK NCC-F4152	WILSON NCC-F4153
ALMENDAL NCC-F4154	MA NCC-F4155	MAHARISHI NCC-F4156	WILSON NCC-F4157
ALMENDAL NCC-F4158	MAHARISHI NCC-F4159	MAHARISHI NCC-F4160	WILSON NCC-F4161
ALMENDAL NCC-F4162	MAHARISHI NCC-F4163	MAHARISHI NCC-F4164	WILSON NCC-F4165
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ALMENDAL NCC-F4170	MAHARISHI NCC-F4171	MAHARISHI NCC-F4172	WILSON NCC-F4173
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ALMENDAL NCC-F4186	MAHARISHI NCC-F4187	MAHARISHI NCC-F4188	WILSON NCC-F4189
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ALMENDAL NCC-F4430	MAHARISHI NCC-F4431	MAHARISHI NCC-F4432	WILSON NCC-F4433
ALMENDAL NCC-F4434	MAHARISHI NCC-F4435	MAHARISHI NCC-F4436	WILSON NCC-F4437
ALMENDAL NCC-F4438	MAHARISHI NCC-F4439	MAHARISHI NCC-F4440	WILSON NCC-F4441
ALMENDAL NCC-F4442	MAHARISHI NCC-F4443	MAHARISHI NCC-F4444	WILSON NCC-F4445
ALMENDAL NCC-F4446	MAHARISHI NCC-F4447	MAHARISHI NCC-F4448	WILSON NCC-F4449
ALMENDAL NCC-F4450	MAHARISHI NCC-F4451	MAHARISHI NCC-F4452	WILSON NCC-F4453
ALMENDAL NCC-F4454	MAHARISHI NCC-F4455	MAHARISHI NCC-F4456	WILSON NCC-F4457
ALMENDAL NCC-F4458	MAHARISHI NCC-F4459	MAHARISHI NCC-F4460	WILSON NCC-F4461
ALMENDAL NCC-F4462	MAHARISHI NCC-F4463	MAHARISHI NCC-F4464	WILSON NCC-F4465
ALMENDAL NCC-F4466	MAHARISHI NCC-F4467	MAHARISHI NCC-F4468	WILSON NCC-F4469
ALMENDAL NCC-F4470	MAHARISHI NCC-F4471	MAHARISHI NCC-F4472	WILSON NCC-F4473
ALMENDAL NCC-F4474	MAHARISHI NCC-F4475	MAHARISHI NCC-F4476	WILSON NCC-F4477
ALMENDAL NCC-F4478	MAHARISHI NCC-F4479	MAHARISHI NCC-F4480	WILSON NCC-F4481
ALMENDAL NCC-F4482	MAHARISHI NCC-F4483	MAHARISHI NCC-F4484	WILSON NCC-F4485
ALMENDAL NCC-F4486	MAHARISHI NCC-F4487	MAHARISHI NCC-F4488	WILSON NCC-F4489
ALMENDAL NCC-F4490	MAHARISHI NCC-F4491	MAHARISHI NCC-F4492	WILSON NCC-F4493
ALMENDAL NCC-F4494	MAHARISHI NCC-F4495	MAHARISHI NCC-F4496	WILSON NCC-F4497
ALMENDAL NCC-F4498	MAHARISHI NCC-F4499	MAHARISHI NCC-F4500	WILSON NCC-F4501

CLASS SHIP, LOST IN THE LINE OF DUTY. PROPOSED, ALL NAMES PRECEDED WITH U.S.S.

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



Field Length 800.00m
Field Width 80.00m
Field Height 80.00m



Front Warp Field Profile
Cross Section Area 11120.00 m²



Port Warp Field Profile
Cross Section Area 11120.00 m²



Top Warp Field Profile
Cross Section Area 11120.00 m²

WARP FIELDS

SRM3 04:03:04:04

STARFLEET REFERENCE MANUAL

GRIFFIN CLASS

FEDERATION VESSEL

TRANSPORT SHIP



General Information

Specific Role: The Sydney Class Transport Ship is a light-duty interstellar capable personnel/cargo transport vessel. Comfortable accommodations for up to 200 passengers and moderate cargo storage make this Starfleet affiliated vessel one of the most preferable ships for extended travel. Due to its moderate armament this class vessel avoids combat. The Sydney Class transport is often used for Starfleet Cadet training and familiarization with space craft.

Physical Description: The (B5/C/T-12) bridge is centered on top of the Transport's hull, has a wedge shaped mid. A (SQ8-A) rectangular navigational deflector is mounted on the nose of vessel. Directly behind the bridge are two (NA5/S2) navigational arrays. This class vessel has four (H2/F6-2) phaser banks located over and under the navigational array and one on each side of the ship just forward of the sensor arrays. The (IR-16)/8-IR) impulse drive is located on the rear section of the vessel over the main cargo hold above the rear cargo hatches. Immediately underneath the rear cargo doors is a small bumper. For warp propulsion two (SW45/5S) nacelles are mounted on (DU-22-6F) support pylons on either side of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated, the transport can maneuver on impulse power for extended periods of time.

Class Emblem

Sydney Class
TRANSPORT SHIP



Ship Silhouettes

Total Target Area 28185.47 m²



Top Silhouette

Area 18859.08 m²



Port Silhouette

Area 8870.34 m²



Front Silhouette

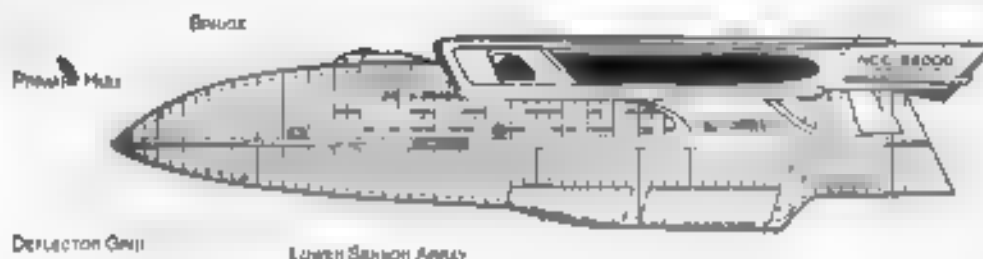
Area 5539.05 m²



TRANSPORT SHIP

SYDNEY CLASS

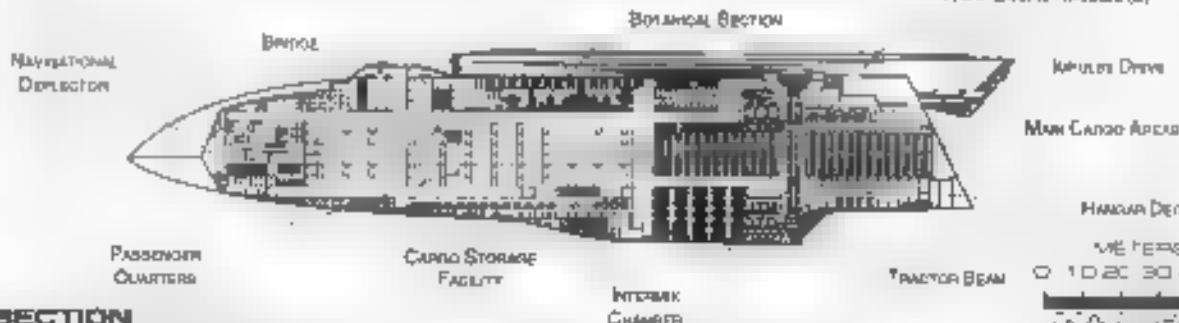
WARP ENGINE MODULE (2)



DEFLECTOR GRILL

LOWER SENSOR ARRAY

WARP ENGINE MODULE (2)



NAVIGATIONAL
DEFLECTOR

BRIDGE

BIOLOGICAL SECTION

IMPULSE DRIVE

MAIN CARGO AREA

HANGAR DECK

WARP ENGINE

TRACTOR BEAM

0 10 20 30 40 50

CROSS SECTION

Statistics

Classification: Transport Ship

Category: Cargo Vessel

Class: Sydney

Type: Class 2

Model: MK2-JCC

Naval Construction Contract: 92000

Number Proposed: 79

Number Constructed: 79

Number in Service: 77

Number Lost: 2

Dimensions:

Overall Dimensions (Meters)

Length: 235.30 m

Width: 20.84 m

Height: 5.09 m

Primary Hull Dimensions (Meters)

Length: 223.41 m

Width: 20.84 m

Height: 48.24 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: N/A m

Height: N/A m

Warp Core Dimensions (Meters)

Length: 14.80 m

Width: 12.80 m

Height: 8.32 m

Displacement (Metric Tons)

Light: 70567 mt

Standard: 182,168 mt

Full Load: 204024 mt

Performance: mt

Impulse Drive: Dual Unit (DPF3525-9A)

Impulse Engine Output: 3.80E+13 W

Impulse Power Index: 0.83

Max Cruising: C

Acceleration Rate:

0.00-0.28 Impulse: 0.352 sec

0.28-0.80 Impulse: 0.555 sec

0.80-0.75 Impulse: 0.740 sec

0.75-Full Impulse: 0.925 sec

Warp Units: 2 Module Units (SW45/1-SSH)

Warp Engine Output: 3.02E+15 W

Warp Power Index: 2.83

Optimal Speed: 4

Max. Safe Cruising: 5

Emergency Speed: 8

Max. Speed: 8.2

Destructive Speed: 8.5

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.319 sec

Warp 2 Warp 3: 0.510 sec

Warp 3 Warp 4: 0.930 sec

Warp 4 Warp 5: 2.75 sec

Warp 5 Warp 6: 2.956 sec

Warp 6 Warp 7: 3.205 sec

Warp 7 Warp 8: 4.114 sec

Warp 8 Warp 9: 5.664 sec

Warp 9 Warp 9.5: 13.078 sec

Warp 9.5 Warp 9.75: 16.49 sec

Warp 9.75 Warp 9.9: 3.45

Duration (Years)

Standard: Years

Maximum: 20 Years

Ship Ship Complement: 80

Officers: 4

Crew (Ensign Grade): 68

Troops: 0

Passengers: 200

Emergency condition: +388,422

Medical Facilities:

Doctors: 3

Nurses:

Operating Rooms: 2

Beds: 0

Laboratories: 5

Transmitters Total: 29

1 Person: 0

2 Person: 1

6 Person: 7

12 Person: 0

12 Person: 7

Small Cargo: 7

Medium Cargo: 7

Large Cargo: 0

Super Cargo: 0

Bridge: 11

Communications: 37

Tractor Beams:

Low Capacity: 4.41E+05 mt

Max Range: 32E+05 km

Cargo Specifications:

Standard Cargo Units: 800

Cargo Capacity: 75000 mt

Shuttlecraft Specifications:

Docking Ports: 3

Shuttlecraft Bays Total: 4

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 1

Work Base:

Travel Pods

Aquatic Shuttle:

Light Shuttle: 0

Standard Shuttle: 0

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 0

Killer Base: 0

Light Fighter: 0

Fighter: 0

Heavy Fighter: 0

Lifelines: 34

Turbolift (8 person): 23

Lifboat (10 person): 0

Lifboat (20 person): 2

Lifboat (30 person): 0

Cloaking Devices: 1

Sensor Index Values:

Planetary Survey: 0.2354

Galactic Survey: 0.4708

Short Range: 0.4280

Long Range: 0.8580

Navigation: 0.418

Special: 1.2951

Computers: 2

Type: Daystrom Destructive II-X

Type: Daystrom Destructive II-X

ECM Index: 0.60

Shield Rating:

Shield Index: 0.74

Holdoff Power: 8.36E+11 W

Recharge Rate: 2.98E+11 W

Breakdown Rate: 2.85E+11 W

Shield Dimensions (Meters)

Length: 352.95 m

Width: 8.26 m

Height: 76.64 m

Weapons:

Phaser Power Index: 0.189

Photon Power Index: 0.000

Vessel Power Index: 0.083

Weapon Placement:

Beam (Phaser) Total: 4 bays 2 each

Output: 0.0E+00 W 2.5E+11 W

Range: 2.5E+05 km

Rate of Fire: 30 ppm Cont

Forward Banks: 0

Rear Banks: 0

Port Banks: 1

Starboard Banks: 1

Upper Banks: 1

Lower Banks: 1

Beam (MegaPhaser) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Mock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

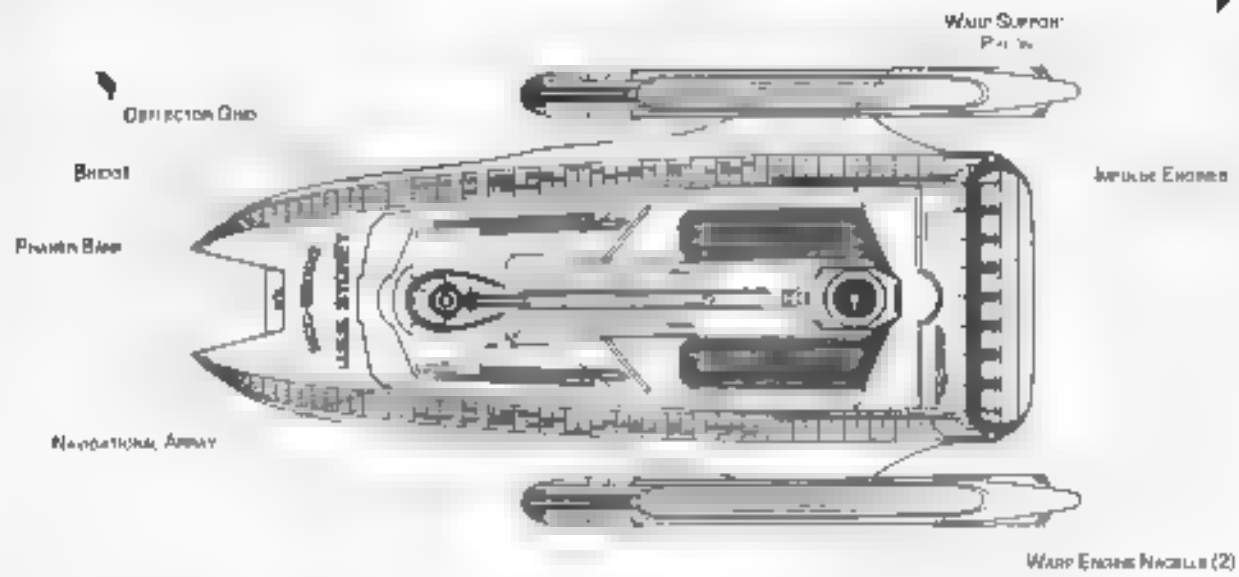
Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

REPLICATION VESSEL

TRANSPORT SHIP

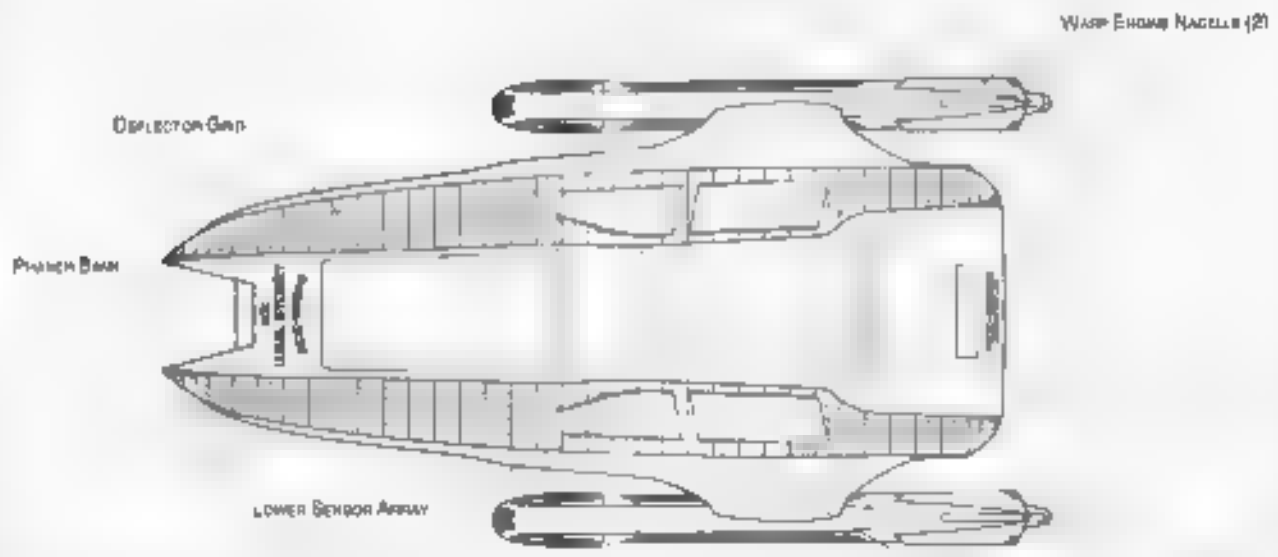


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE



TRANSPORT SHIP

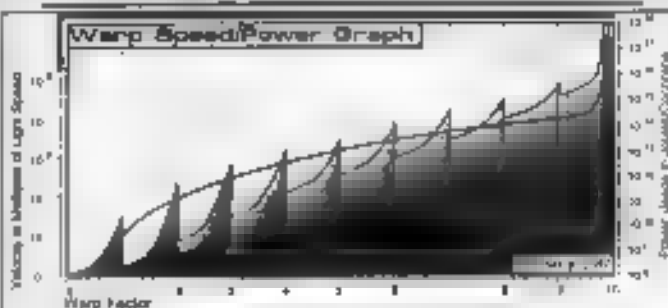
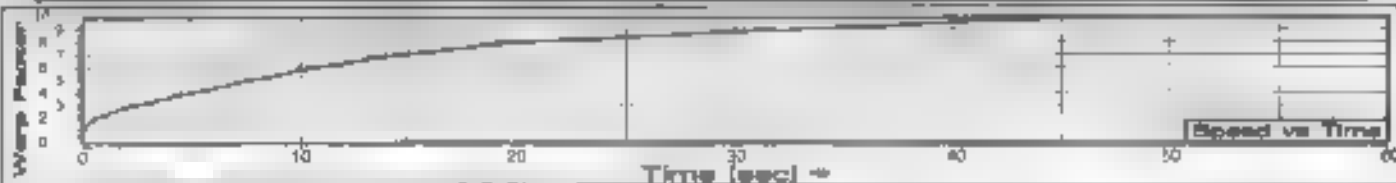
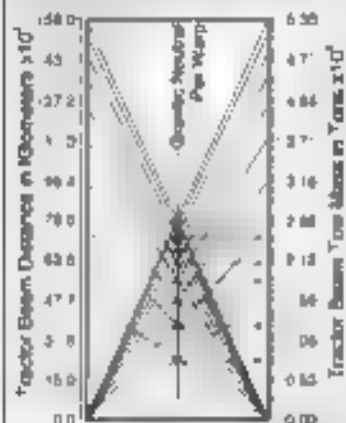
Ship Names

THE FOLLOWING SHIPS OF THE MK2-XX CLASS WERE AUTHORIZED BY THE
AMENOSO ARTICLES OF FEDERATION OF STARDATE 2075.0

JAIRAGAE NC 52036	JAIRAGAE NC 52037	NEIGE NC 52040	TWERNA NC 52043
SEAFAC NC 52038	JAIRAGAE NC 52038	NEIGE NC 52041	WIL E NC 52044
NEIGE NC 52039	JAIRAGAE NC 52039	NEIGE NC 52042	JAIRAGAE NC 52045
NEIGE NC 52040	JAIRAGAE NC 52040	NEIGE NC 52043	
NEIGE NC 52041	JAIRAGAE NC 52041	NEIGE NC 52044	
NEIGE NC 52042	JAIRAGAE NC 52042	NEIGE NC 52045	
NEIGE NC 52043	JAIRAGAE NC 52043	NEIGE NC 52046	
NEIGE NC 52044	JAIRAGAE NC 52044	NEIGE NC 52047	
NEIGE NC 52045	JAIRAGAE NC 52045	NEIGE NC 52048	
NEIGE NC 52046	JAIRAGAE NC 52046	NEIGE NC 52049	
NEIGE NC 52047	JAIRAGAE NC 52047	NEIGE NC 52050	
NEIGE NC 52048	JAIRAGAE NC 52048	NEIGE NC 52051	
NEIGE NC 52049	JAIRAGAE NC 52049	NEIGE NC 52052	
NEIGE NC 52050	JAIRAGAE NC 52050	NEIGE NC 52053	
NEIGE NC 52051	JAIRAGAE NC 52051	NEIGE NC 52054	
NEIGE NC 52052	JAIRAGAE NC 52052	NEIGE NC 52055	
NEIGE NC 52053	JAIRAGAE NC 52053	NEIGE NC 52056	
NEIGE NC 52054	JAIRAGAE NC 52054	NEIGE NC 52057	
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NEIGE NC 52056	JAIRAGAE NC 52056	NEIGE NC 52059	
NEIGE NC 52057	JAIRAGAE NC 52057	NEIGE NC 52060	
NEIGE NC 52058	JAIRAGAE NC 52058	NEIGE NC 52061	
NEIGE NC 52059	JAIRAGAE NC 52059	NEIGE NC 52062	
NEIGE NC 52060	JAIRAGAE NC 52060	NEIGE NC 52063	
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NEIGE NC 52065	JAIRAGAE NC 52065	NEIGE NC 52068	
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NEIGE NC 52067	JAIRAGAE NC 52067	NEIGE NC 52070	
NEIGE NC 52068	JAIRAGAE NC 52068	NEIGE NC 52071	
NEIGE NC 52069	JAIRAGAE NC 52069	NEIGE NC 52072	
NEIGE NC 52070	JAIRAGAE NC 52070	NEIGE NC 52073	
NEIGE NC 52071	JAIRAGAE NC 52071	NEIGE NC 52074	
NEIGE NC 52072	JAIRAGAE NC 52072	NEIGE NC 52075	
NEIGE NC 52073	JAIRAGAE NC 52073	NEIGE NC 52076	
NEIGE NC 52074	JAIRAGAE NC 52074	NEIGE NC 52077	
NEIGE NC 52075	JAIRAGAE NC 52075	NEIGE NC 52078	
NEIGE NC 52076	JAIRAGAE NC 52076	NEIGE NC 52079	
NEIGE NC 52077	JAIRAGAE NC 52077	NEIGE NC 52080	
NEIGE NC 52078	JAIRAGAE NC 52078	NEIGE NC 52081	
NEIGE NC 52079	JAIRAGAE NC 52079	NEIGE NC 52082	
NEIGE NC 52080	JAIRAGAE NC 52080	NEIGE NC 52083	
NEIGE NC 52081	JAIRAGAE NC 52081	NEIGE NC 52084	
NEIGE NC 52082	JAIRAGAE NC 52082	NEIGE NC 52085	
NEIGE NC 52083	JAIRAGAE NC 52083	NEIGE NC 52086	
NEIGE NC 52084	JAIRAGAE NC 52084	NEIGE NC 52087	
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NEIGE NC 52086	JAIRAGAE NC 52086	NEIGE NC 52089	
NEIGE NC 52087	JAIRAGAE NC 52087	NEIGE NC 52090	
NEIGE NC 52088	JAIRAGAE NC 52088	NEIGE NC 52091	
NEIGE NC 52089	JAIRAGAE NC 52089	NEIGE NC 52092	
NEIGE NC 52090	JAIRAGAE NC 52090	NEIGE NC 52093	
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NEIGE NC 52092	JAIRAGAE NC 52092	NEIGE NC 52095	
NEIGE NC 52093	JAIRAGAE NC 52093	NEIGE NC 52096	
NEIGE NC 52094	JAIRAGAE NC 52094	NEIGE NC 52097	
NEIGE NC 52095	JAIRAGAE NC 52095	NEIGE NC 52098	
NEIGE NC 52096	JAIRAGAE NC 52096	NEIGE NC 52099	
NEIGE NC 52097	JAIRAGAE NC 52097	NEIGE NC 52100	
NEIGE NC 52098	JAIRAGAE NC 52098	NEIGE NC 52101	
NEIGE NC 52099	JAIRAGAE NC 52099	NEIGE NC 52102	
NEIGE NC 52100	JAIRAGAE NC 52100	NEIGE NC 52103	
NEIGE NC 52101	JAIRAGAE NC 52101	NEIGE NC 52104	
NEIGE NC 52102	JAIRAGAE NC 52102	NEIGE NC 52105	
NEIGE NC 52103	JAIRAGAE NC 52103	NEIGE NC 52106	
NEIGE NC 52104	JAIRAGAE NC 52104	NEIGE NC 52107	
NEIGE NC 52105	JAIRAGAE NC 52105	NEIGE NC 52108	
NEIGE NC 52106	JAIRAGAE NC 52106	NEIGE NC 52109	
NEIGE NC 52107	JAIRAGAE NC 52107	NEIGE NC 52110	
NEIGE NC 52108	JAIRAGAE NC 52108	NEIGE NC 52111	
NEIGE NC 52109	JAIRAGAE NC 52109	NEIGE NC 52112	
NEIGE NC 52110	JAIRAGAE NC 52110	NEIGE NC 52113	
NEIGE NC 52111	JAIRAGAE NC 52111	NEIGE NC 52114	

Tractor Beam Specifications

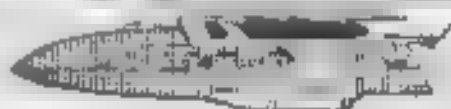
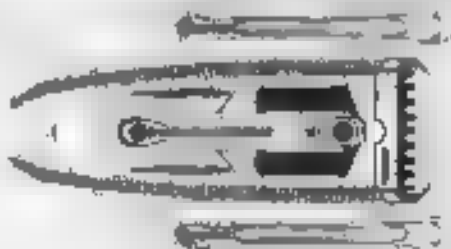
Primary Tractor Beam Load Calculator



Field Length 578.00mm
Field Width 100.40mm
Field Height 80.00mm



Front Warp Field Profile
Cross Section Area 10000.00 m²

Porto Wierp Field Profile
Cross Section Area 34054.80 m²

Top Warp Field Profile
Cross Section Area 45552.88 m²

WARP FIELDS

SAM3 04:03:05:04

STARFLEET REFERENCE MANUAL

SYDNEY CLASS

FEDERATION VESSEL

DEUTERIUM TANKER

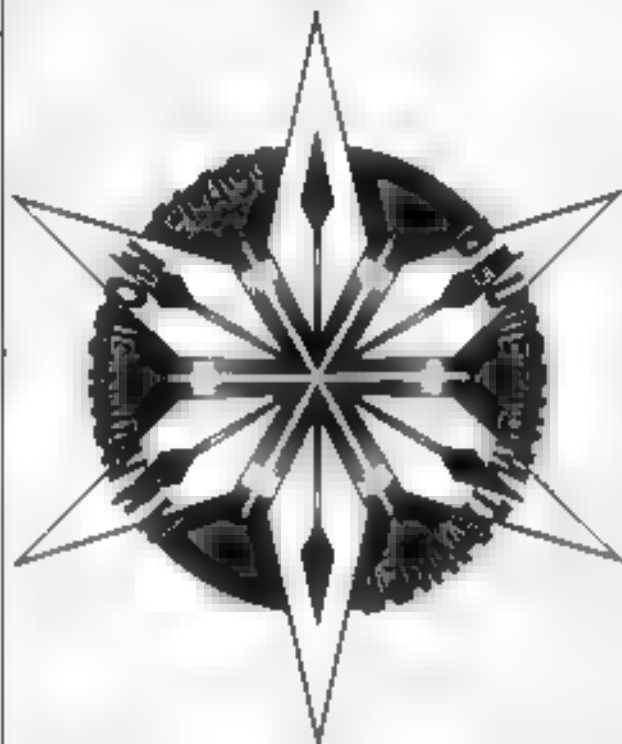


General Information

Specific Role: Deuterium tankers are essential for the supply and refueling of starships. Tankers rarely travel unescorted in hostile areas since just about any space-faring vessel can use deuterium as a fuel source, including pirate vessels. Usually a few fighters accompany the tanker in the shuttle bay. A special fuel shuttle is standard issue with the tanker.

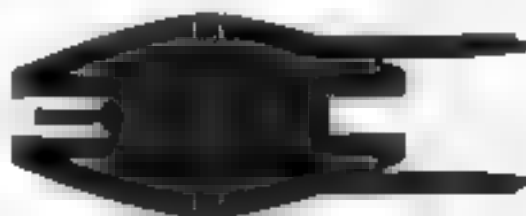
Physical Description: The modular design of the deuterium tanker allows it to be produced relatively inexpensively. The design revolves around a (94/17 x M2) modified secondary hull with a (3826/C 08) standard bridge located over the front. The (DN2/100) main navigational deflector is mounted on the very front of the ship, while a medium hangar bay is located in the rear facing aft. Two deuterium pods, with telescoping fueling booms, are mounted above and below the engineering hull on (107/9 - 25F) connecting dorsals. Two (182/30-20) phaser banks, one on the peak of each connecting dorsal, provide basic defense. Warp speed propulsion is provided by two (SW45/1-56D) warp engine nacelles, mounted toward the rear, and are supported on (10 - 35 6H) standard pylons. A (33/35, 4 1H) dual impulse unit is located on the rear of the top tank connecting dorsal. In the event of an emergency the warp nacelles and deuterium pods can be independently jettisoned. The (M35/14 2E) intermix chamber can be ejected through the deflection crystal. The deuterium tanker can cruise on impulse for extended periods of time until help can arrive.

Class Emblem



Ship Silhouettes

Total Target Area: 20820.88 m²



Top Silhouette

Area: 16913.91 m²



Port Silhouette

Area: 9901.78 m²



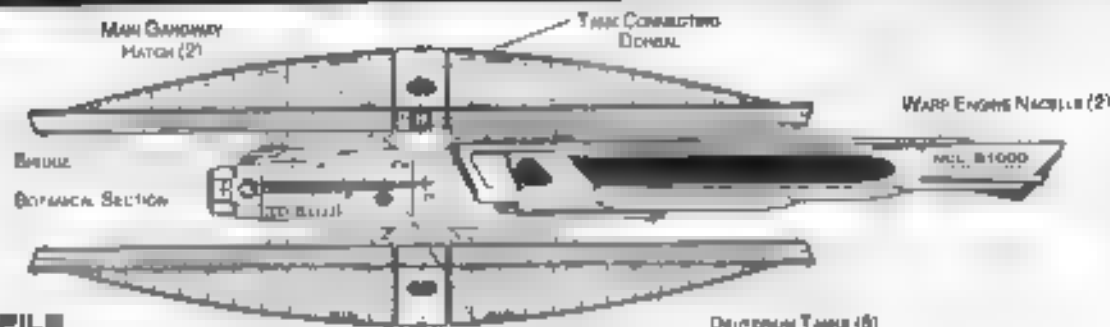
Front Silhouette

Area: 4104.99 m²



DEUTERIUM TANKER

PORT PROFILE



PORT PROFILE

Deuterium Discharge
Tunnel
Deuterium Baffled Tanks (8)
Deuterium Baffled Tanks (8)



CROSS SECTION

Statistics

Classification: Deuterium Tanker

Category: Tanker

Class: Harrington

Type: Cargo

Model: MK2 VII

Naval Construction Contract: 51000

Number Proposed: 98

Number Constructed: 98

Number in Service: 80

Number Lost: 5

Identification:

Overall Dimensions (Meters)

Length: 16.50 m

Width: 102.48 m

Height: 70.55 m

Primary Hull Dimensions (Meters)

Length: 4.48 m

Width: 24.0 m

Height: 2.74 m

Secondary Hull Dimensions (Meters)

Length: 18.54 m

Width: 102.48 m

Height: 28.10 m

Warp Unit Dimensions (Meters)

Length: 14.48 m

Width: 2.6 m

Height: 18.52 m

Displacement (Metric Tons)

Light: 78840 mt

Standard: 84240 mt

Full Load: 2,283 mt

Performance: mt

Impulse Drive: Dual Unit (IRF226/4-IR)

Impulse Engine Output: 3,90E+13 W

Impulse Power Index: 0.81

Max Cruising: 7

Acceleration Rate:

0.00-0.28 Impulse: 0.385 sec

0.28-0.50 Impulse: 1.514 sec

0.50-0.78 Impulse: 0.187 sec

0.78-Full Impulse: 0.959 sec

Warp Units: 2 Nacelle Units (SW45/1-SW7)

Warp Engine Output: 3.02E+15 W

Warp Power Index: 0.61

Optimum Speed: 4

Max Safe Cruising: 8

Emergency Speed: 7

Max. Speed: 7.5

Destructive Speed: 8

Acceleration Power: 3

Acceleration Time:

Warp 1 Warp 2: 0.300 sec

Warp 2 Warp 3: 0.528 sec

Warp 3 Warp 4: 0.908 sec

Warp 4 Warp 5: 2.613 sec

Warp 5 Warp 6: 3.014 sec

Warp 6 Warp 7: 3.119 sec

Warp 7 Warp 8: 4.280 sec

Warp 8 Warp 9: 6.102 sec

Warp 9 Warp 10: 3.540 sec

Warp 10 Warp 11: 5.447 sec

Warp 11 Warp 12: 32.530 sec

Duration (Years)

Standard: Years

Maximum: 24 Years

Std. Ship Complement: 82

Officers: 3

Crew (Ensign Grade): 43

Troops: 0

Passengers: 88

Emergency condition: +137,268

Medical Facilities:

Doctors: 2

Nurses: 2

Operating Rooms: 0

Beds: 5

Laboratories: 6

Important Total: 27

1 Person: 0

2 Person: 0

3 Person: 1

12 Person: 0

23 Person: 0

Small Cargo: 13

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

Bridge: 1

Applications: 14

Tractor Beams:

Tow Capacity: 3.52E+06 mt

Max Range: 28E+06 km

Cargo Specifications:

Standard Cargo Units: 2750

Cargo Capacity: 3,700 mt

Shieldcraft Specifications:

Docking Ports: 2

Shieldcraft Range Total:

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shieldcraft Standard: 18

Work Base: 2

Turret Pods: 2

Aquatic Shuttle:

Light Shuttle: 1

Medium Shuttle: 3

Heavy Shuttle: 1

Cargo Shuttle:

Tanker Shuttle: 5

Sliter Base: 11

Light Fighter: 0

Fighter: 0

Heavy Fighter: 0

Lifboats: 2

Turbolift (8 person): 2

Lifboat (10 person): 0

Lifboat (20 person): 0

Lifboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.2063

Stellar Survey: 0.4125

Short Range: 0.425

Long Range: 0.8250

Navigation: 0.418

Special: 0.1282

Computers: 2

Type: Daystrom Duetronic II:b

Type: Daystrom Duetronic II:b

ECM Index: 0.00

Shield Rating:

Shield Index: 0.83

Holdoff Power: 8.36E+1 W

Refresh Rate: 2.87E+11 W

Breakdown Rate: 3.20E+1 W

Shield Dimensions (Meters)

Length: 38.50 m

Width: 153.72 m

Height: 106.50 m

Weapons:

Phase Power Index: 0.080

Photon Power Index: 0.000

Vapor Power Index: 0.042

Weapon Placement:

Beam (Photon) Total: 2 banks 2 each

Output: 5.00E+1 W 3.7E+1 W

Range: 2.50E+05 km

Rate of Fire: 30 ppm Low

Forward Banks: 0

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 1

Lower Banks: 1

Beams (Megaphasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

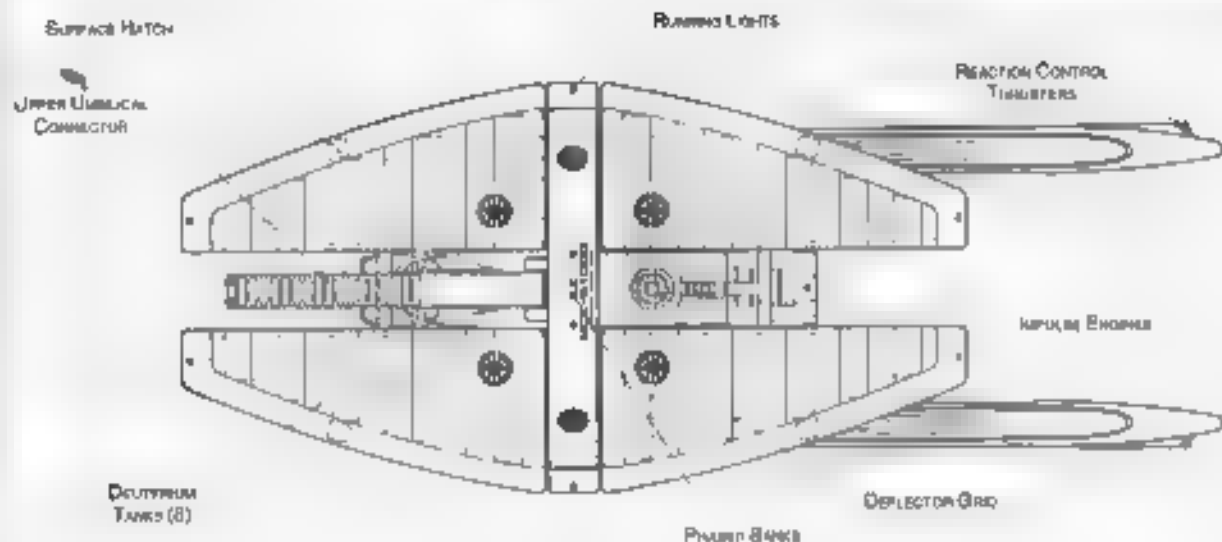
Starboard Bay: 0

Upper Bay: 0

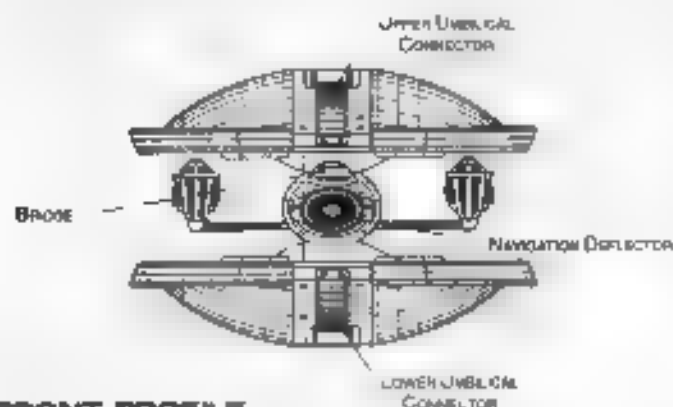
Lower Bay: 0

DEUTERIUM TANKER

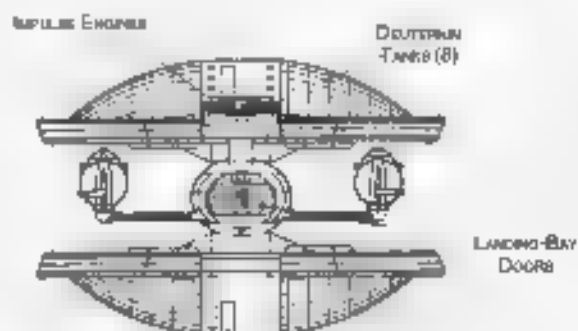
DEUTERIUM TANKER



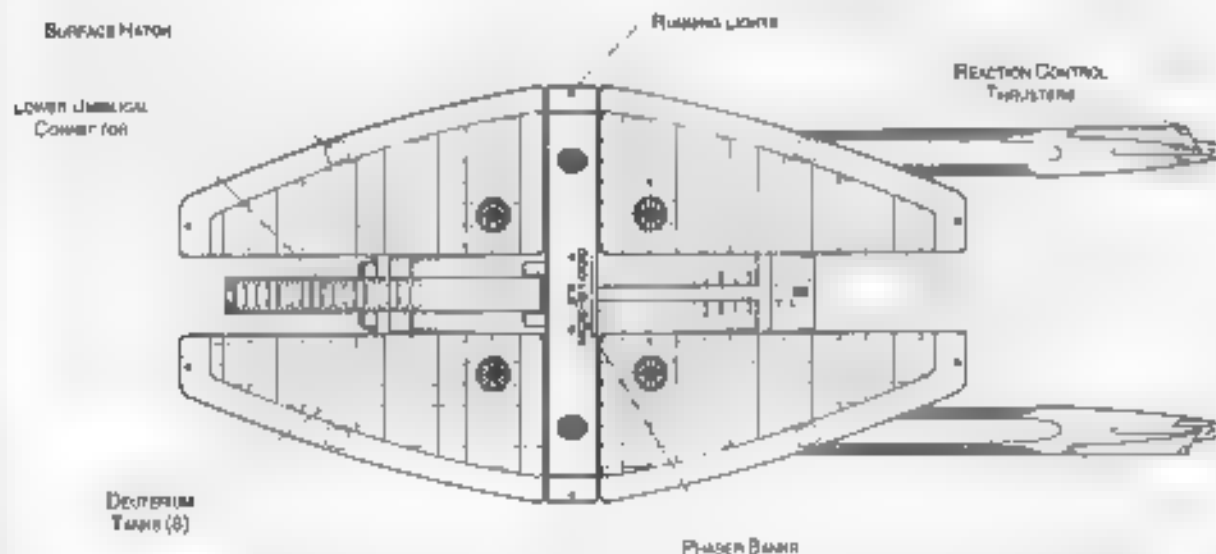
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 20 30 40 50



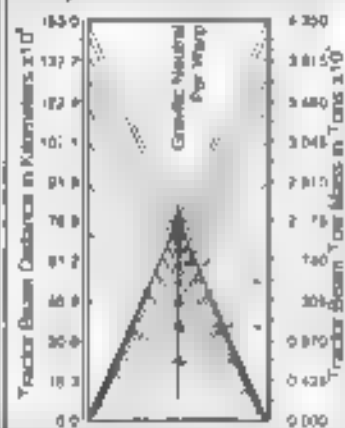
Ship Names

THE FOLLOWING SHIPS OF THE MK9-VII CLASS WERE AUTHORIZED BY THE
AMENDED ARTICLES OF FEDERATION OF STARDATE 2258.4

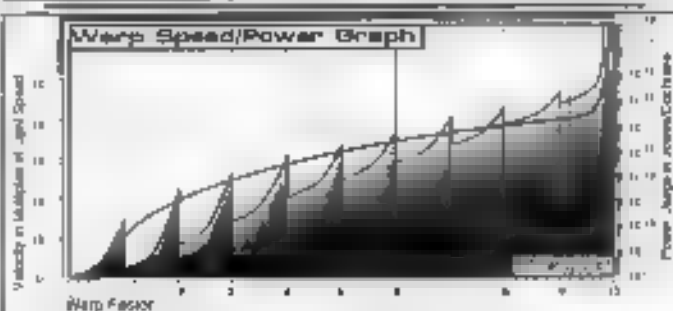
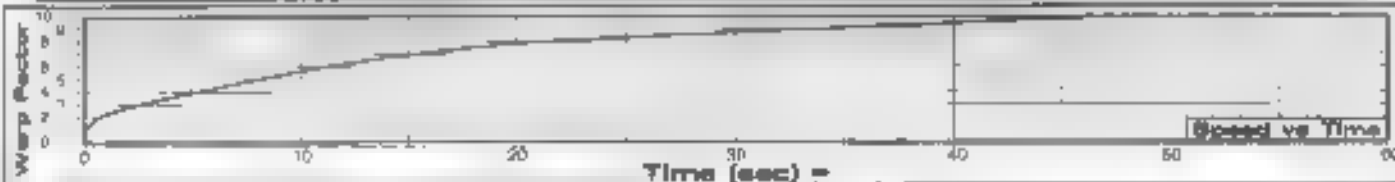
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Tractor Beam Specifications

Primary T-lymphocyte Subset Count Calculator



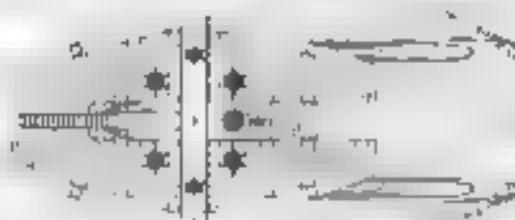
CLASS SHIP. 'LOST IN THE LINE OF DUTY.' PROPOSED ALL NAMES PRECEDED WITH U.S.S.



Field Length: 834.42m
Field Width: 184.98m
Field Height: 124.87m



Front Warp Field Profile
Cross Section Area 18002.00 m²

Port Warp Field Profile
 Green Section Area 37348.38 m²

Top Warp Field Profile
Cross Section Area 65818.96 m²

WARP FIELDS

SAM3 04:03:06:04

STARFLEET REFERENCE MANUAL

Information

FEDERATION VESSEL

NEUTRONIC FUEL CARRIER

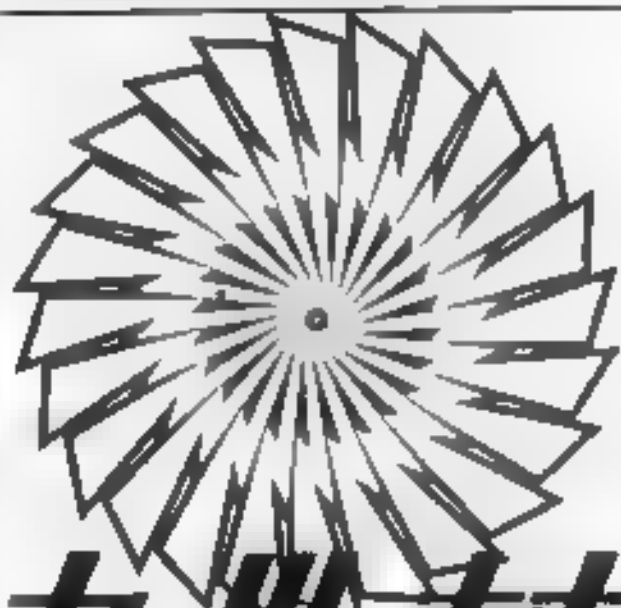


General Information

Specific Role: Neutronic fuel carriers are essential for the supply of fuel to less advanced civilizations that have not yet developed matter-antimatter power systems. Neutronic carriers rarely travel unescorted in hostile areas since some less advanced space-faring vessels can convert the fuel. Usually a few shuttles accompany the tanker in the three small shuttle bays. Although this vessel is an older design, its cheap maintenance cost allow many to remain in service for exceptionally long careers.

Physical Description: The (PF/5/C/33) standard bridge is centered on the top of the rectangular primary hull. The (DN5/A8) main navigational deflector is mounted on the front of the (5H92/C/12N) secondary hull which mainly consists of connecting pylons and access walkways. A small hangar bay faces forward and three small bays face aft. There is standard cargo storage between the front and rear bays. Storing underneath on (PF/01/7N) pylons are two high capacity module systems capable of holding 50,000 metric tons of neutronic fuel. 4 (3H/1/15/C) protoners, two forward, one to the rear and one underneath of the primary hull provide basic defense. Warp speed propulsion is provided by two (SC35/1-45F) self-contained warp engine nacelles mounted to either side, and are supported on (KM/32-6F) standard pylons. A (LRF25B/2/IR) dual impulse unit is located on the rear of the primary hull just under the shuttle bays. In the event of an emergency, the self-contained (SC/35/1-45F) warp core/nacelles and neutronic modules can be independently jettisoned and the carrier can continue on impulse until its fuel supply is depleted.

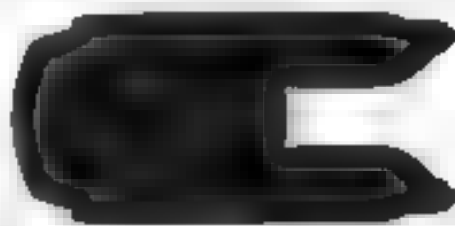
Class Emblem



九条丸
Kobayashi Maru
NEUTRONIC FUEL CARRIER

Ship Silhouettes

Total Target Area 34204.14 m²



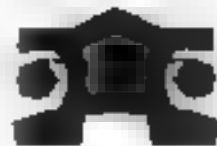
Top Silhouette

Area 81618.87 m²



Port Silhouette

Area 7780.88 m²



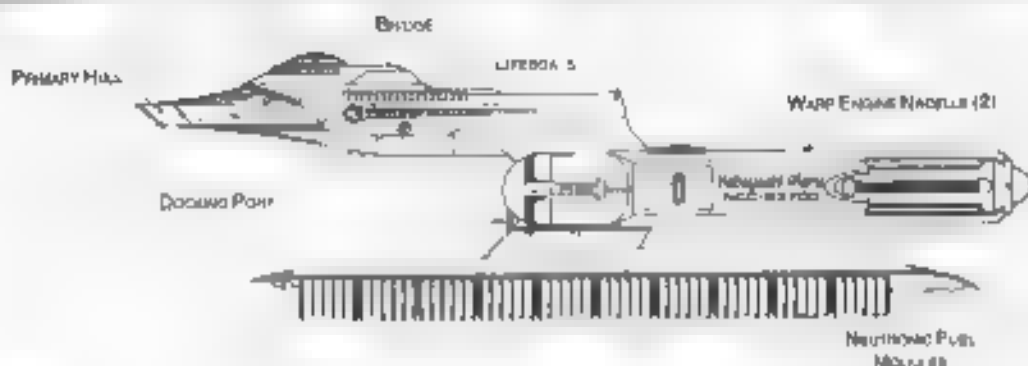
Front Silhouette

Area 10000.00 m²

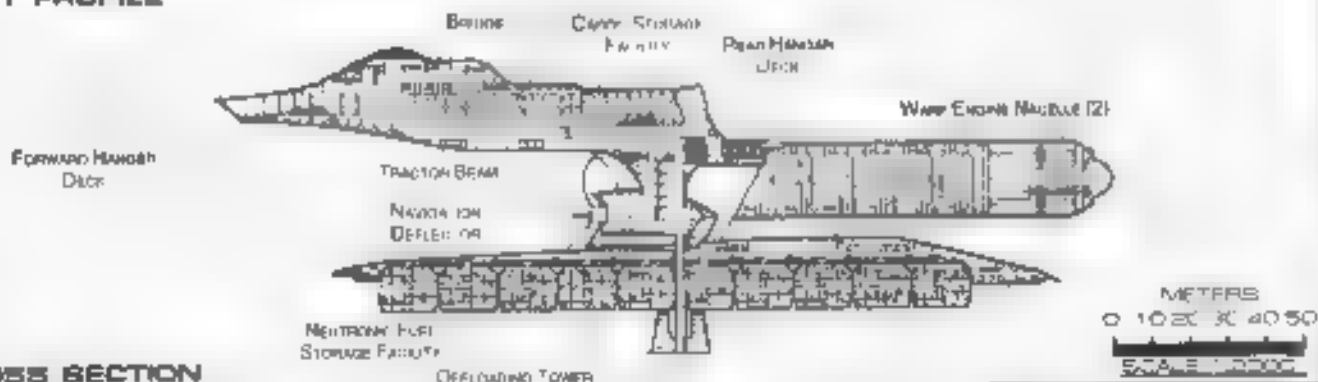


NEUTRONIC FUEL CARRIER

KOBAYASHI MARU CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Neutronic Fuel Carrier

Category: Tanker

Class: Kobayashi Maru

Type: Class 2

Model: MK2-V

Naval Construction Contract: \$3700

Number Produced: 4

Number Constructed: 74

Number in Service: 73

Number Lost:

Dispositions:

Overall Dimensions (Meters)

Length: 237.0 m

Width: 03 m

Height: 70.24 m

Primary Hull Dimensions (Meters)

Length: 276.90 m

Width: 207.67 m

Height: 15.6 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters)

Length: 280.16 m

Width: 46.01 m

Height: 40.67 m

Displacement (Metric Tons)

Light: 36000 mt

Standard: 141043 mt

Full Load: 185162 mt

Performance: (mt)

Impulse Thrust: Dual Unit (HAF 250/2-48)

Impulse Engine Output: 3.00E+13 W

Impulse Power Index: 0.78

Max Cruising C:

Acceleration Rate:

0.00-0.25 Impulse: 0.268 sec

0.25-0.50 Impulse: 0.440 sec

0.50-0.75 Impulse: 0.598 sec

0.75-Full Impulse: 0.750 sec

Warp Units: 2 Nacelle Units (SC254 45F)

Warp Engine Output: 3.02E+13 W

Warp Power Index: 0.78

Optimum Speed: 4

Max Safe Cruising: 8

Emergency Speed: 8.5

Max Speed: 8

Destructive Speed: 8.5

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2 0.268 sec

Warp 2 Warp 3 0.4 sec

Warp 3 Warp 4 1.582 sec

Warp 4 Warp 5 2.248 sec

Warp 5 Warp 6 7.40+ sec

Warp 6 Warp 7 2.506 sec

Warp 7 Warp 8 3.330 sec

Warp 8 Warp 9 4.761 sec

Warp 9 Warp 9.5 10.585 sec

Warp 9.5 Warp 9.75 12.263 sec

Warp 9.75 Warp 9.9 25.430 sec

Duration (Years)

Standard: 0+ years

Maximum: 20 Years

Ship Complement: 8

Officers: 4

Crew (Single Operator): 87

Troops: 0

Passengers: 374

Emergency condition: + 5+4 788

Medical Facilities:

Doctors: 2

Nurses: 5

Operating Rooms: 2

Beds:

Laboratories: 4

Transporters Total: 7

1 Person: 0

2 Person: 0

3 Person: 4

12 Person: 0

32 Person: 4

Small Cargo: 6

Medium Cargo: 4

Large Cargo: 0

Super Cargo: 0

Bridge: 0

Replicators: 1

Time or Reach:

Ton Capacity: 4.08E+08 mt

Max Range: 1.38E+06 km

Cargo Specifications:

Standard Cargo Units: 1000

Cargo Capacity: 50000 mt

Shuttlecraft Specifications:

Docking Ports: 4

Shuttlecraft Bays Total: 4

Small Bay: 4

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 22

Work Base: 2

Troop Pods: 2

Aquatic Shuttle: 2

Light Shuttle: 0

Standard Shuttle: 2

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 0

Editor Base: 0

Light Fighter: 0

Fighter: 1

Heavy Fighter: 0

Lifeboats: 20

Turbolift (8 person): 14

Lifeboat (10 person): 10

Lifeboat (20 person): 4

Lifeboat (30 person): 0

Docking Devices: 0

Sensor Index Values:

Planetary Survey: 0.2003

Stellar Survey: 0.4+25

Short Range: 0.4+25

Long Range: 0.6260

Navigation: 0.0005

Special: 0.0+00

Comps: 2

Type: Daystrom Neutronic IIa

Type: Daystrom Neutronic IIa

SCM Index: 0.50

Shield Rating:

Shield Index: 0.44

Bolt/Power: 4.63E+1 W

Refresh Rate: 40E+1 W

Breakdown Rate: 1.88E+1 W

Shield Dispersal (Meters)

Length: 355.52 m

Width: 180.55 m

Height: 106.36 m

Weapons:

Phaser Power Index: 0.083

Photon Power Index: 0.000

Vessel Power Index: 0.042

Weapon Placement:

Beam (Phaser) Total: 2 banks 2 each

Output: 3.00E+1 W 2 SE: W

Range: 2.00E+04 km

Rate of Fire: 30 ppm Cont.

Forward Banks:

Rear Banks:

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Beam: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

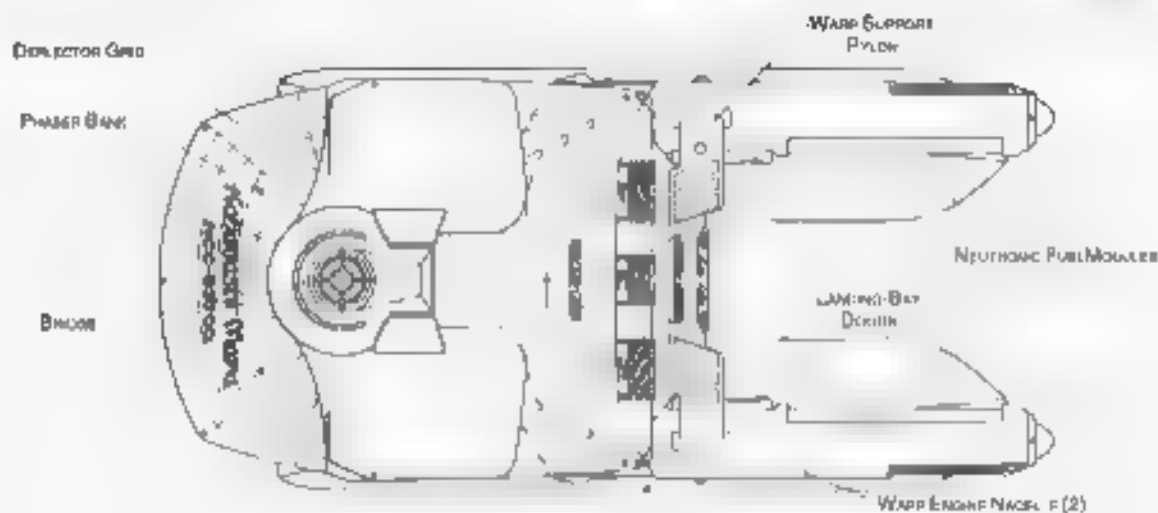
Starboard Bay: 0

Upper Bay: 0

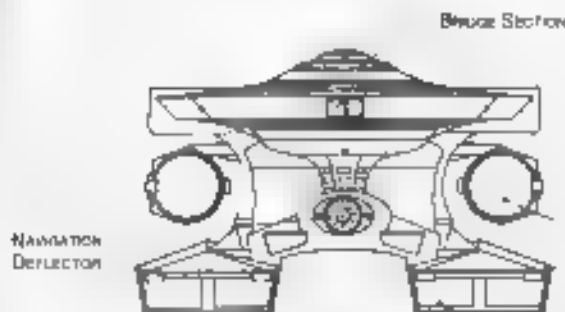
Lower Bay: 0

FEDERATION VESSEL

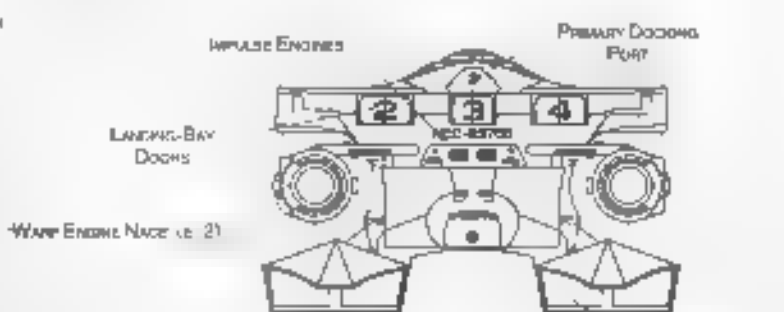
NEUTRONIC FUEL CARRIER



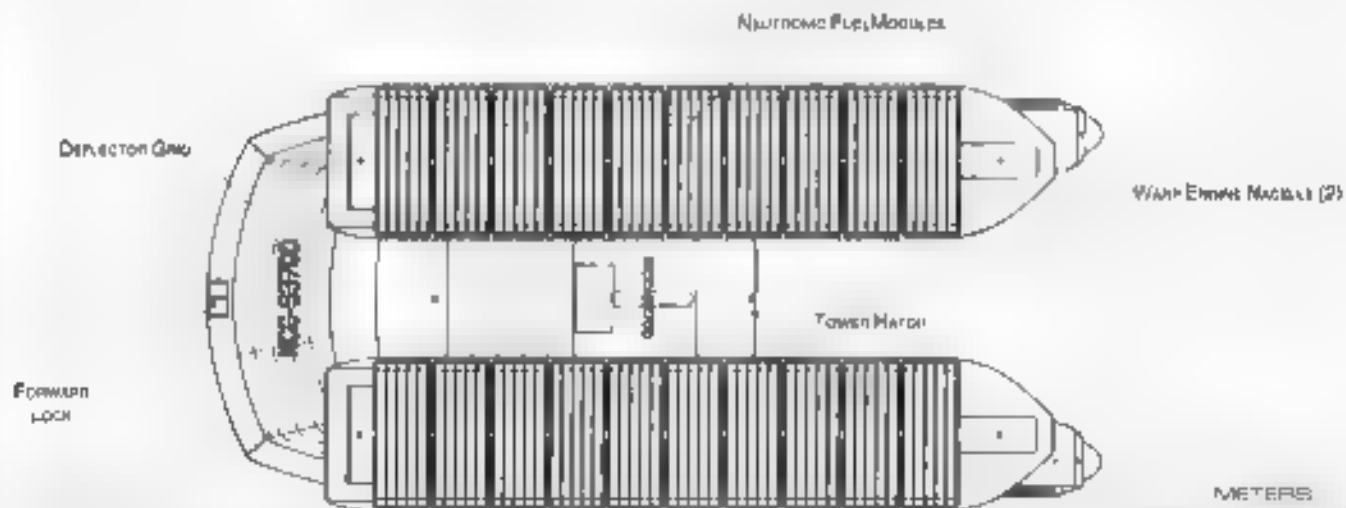
TOP PROFILE



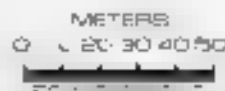
FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





Ship Names

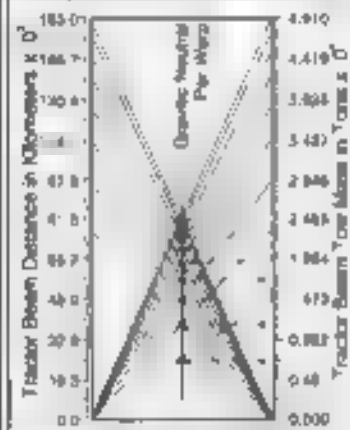
THE FOLLOWING SHIPS OF THE MKC/V CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2002.0

[illegible]

CLARENCE MHE. LOST IN THE LINE OF DUTY. PROPOSED ALL NAMES REGISTERED WITH MHE.

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



Field Length	530.12m
Field Width	144.02m
Field Height	22.27m



Front Warp Field Profile
Cross Section Area 17382.01 m^2

Port Warp Field Profile
Cross Section Area 3800[±].25 m²

Top Warp Field Profile
Cross Section Area: 78108.34 m²

WARP FIELDS

SRM3 04:03:07:04

STARFLEET REFERENCE MANUAL

KOBAYASHI MARU CLASS

FEDERATION VESSEL

STARLINER



General Information

Specific Role: The Rising Star Class Starliner is designed to provide uncrowded luxurious accommodations for up to 2000 passengers. The unusually large circular botanical level occupies the rim of the ship and has large windows giving a unsurpassed view of the stars. The Starliner also incorporates exceptionally comprehensive recreation facilities such as holodecks and gyms. Many races choose to tour the Federation on these ships, the full tour takes seven years, but many smaller one and two month cruises are offered as well. Only one starliner has ever been lost.

Physical Description: The (HS)2/C 15 standard bridge is centrally located atop the expansive hull. Centrally located underneath the hull is the (LN)6/tN navigation dome assembly. The lower hull incorporates the forward facing (LN7 A10) main deflector dish, cargo storage and three medium hangar bays facing aft. Defense is provided by four B-2 (B-28) phasers, three on top and one underneath the front of the hull. Warp speed propulsion is provided by a (SW)04/2 (05L) high density warp nacelle mounted high on the rear portion of the vessel, and can be jettisoned in an emergency. A TRF55E/2 IR dual impulse unit is located under the rear of the engineering section aft of the shuttle bays. In an emergency the (M6B/22) E. intermix chamber can be ejected through the deflector crystal. The matter/antimatter storage facility is positioned between the shuttle bays and deflection crystal, for jettisoning if necessary. If the warp nacelle or matter/antimatter storage facility have to be jettisoned the starliner can continue on impulse for extended periods of time until help can arrive.

Class Emblem



Ship Silhouettes

Total Target Area 34008.01 m²



Top Silhouette

Area 28777.04 m²



Area 13713.00 m²



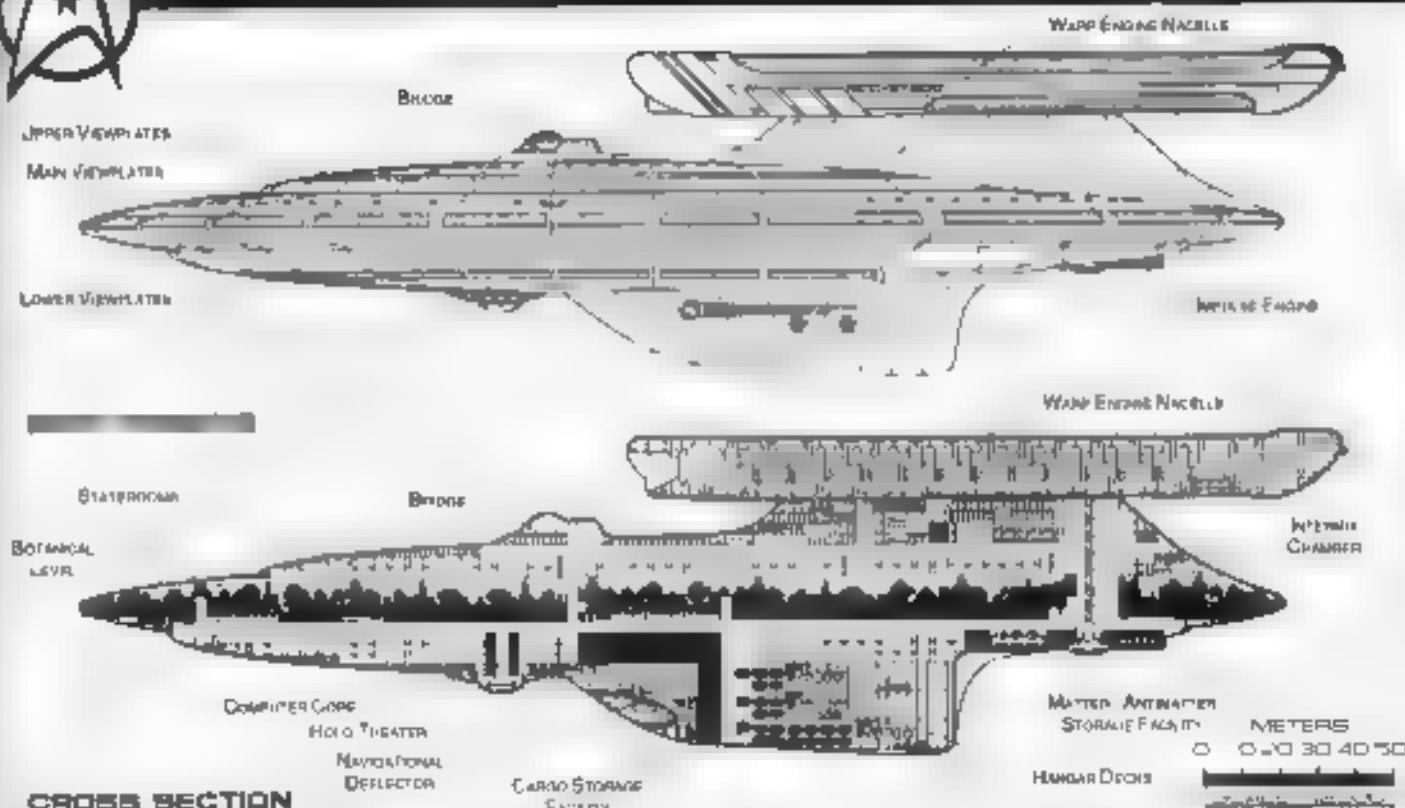
Front Silhouette

Area 1628.01 m²



STARLINER

CLASSIC STARCLAS



CROSS SECTION

Statistics

Classification: Starliner
Category: Starliner
Class: Rapp Star
Type: Cargo
Model: VN2-X

Naval Construction Contract: 51200
Number Produced: 18
Number Constructed: 18
Number in Service: 17
Number Lost: 1

Dimensions:
Overall Dimensions (Meters):
Length: 118.54 m
Width: 52.4 m
Height: 8.56 m

Primary Hull Dimensions (Meters):
Length: 30.28 m
Width: 52.4 m
Height: 64.92 m

Secondary Hull Dimensions (Meters):
Length: N/A m
Width: N/A m
Height: N/A m

Warp Unit Dimensions (Meters):
Length: 5 m
Width: 26.84 m
Height: 66 m

Displacement (Metric Tons):
Light: 157840 mt
Standard: 485.73 mt
Full Load: 54.008 mt

Performance: NA
Impulse Units: Dual Unit DRF55E/2-IR
Impulse Engine Output: 100% 3 W
Impulse Power Index: 0.21
Max Cruising: C
Acceleration Rate:
0.00-0.20 Impulse: 0.400 sec
0.20-0.50 Impulse: 0.796 sec
0.50-0.75 Impulse: 0.983 sec
0.75-Full Impulse: 2.29 sec
Warp Delta: Nacelle JN15 (SW1042-10SL)
Warp Engine Output: 2.72E+ 5 W
Warp Power Index: N/A

Optimum Speed: 4
Max Safe Cruising: 5
Emergency Speed: 7
Max Speed: 7.2
Destructive Speed: 7.5
Acceleration Power: 3
Acceleration Times:
Warp 1 Warp 2: 0.94 sec
Warp 2 Warp 3: 505 sec
Warp 3 Warp 4: 5.69 sec
Warp 4 Warp 5: 0.84 sec
Warp 5 Warp 6: 8.749 sec
Warp 6 Warp 7: 0.454 sec
Warp 7 Warp 8: 4.35 sec
Warp 8 Warp 9: 7.356 sec
Warp 9 Warp 10: 18.575 sec
Warp 10 Warp 11: 44.664 sec
Warp 11 Warp 12: 92.66 sec

Detailing (Years):
Standard: 7 Years
Maximum: 26 Years

Mid-Ship Commission: #00
Officers: 05

Crew (Ensign Grade): 3.5
Troops: 20
Passengers: 2000
Emergency conditions: + 302+ 98

Medical Facilities:
Doctors: 7
Nurses: 18
Operating Rooms: 13
Beds: 82

Laboratories: 15

Transportation Total: 58

1 Person: 0
2 Person: 0
3 Person: 20
4 Person: 0
5 Person: 20
Small Cargo: 5
Medium Cargo: 3
Large Cargo: 0
Super Cargo: 0

Brigs: 20
Replicators: 80
Tractor Beams:
Tow Capacity: 8.73E+05 mt
Max Range: 68E+05 km

Cargo Specifications:
Standard Cargo Units: 1000
Cargo Capacity: 50000 mt

Shuttlecraft Specifications:
Docking Ports: 4
Shuttlecraft Bays Total: 3
Small Bay: 0
Medium Bay: 3
Large Bay: 0
Super Bay: 0

Shuttlecraft Standards: 83
Work Bays: 16
Travel Pods: 24
Aquatic Shuttle: 3
Light Shuttle: 2
Standard Shuttle: 24
Heavy Shuttle: 3
Cargo Shuttle: 8
Assault Shuttle: 0
X-Bay: 0
Light Fighters: 0
Fighters: 11
Heavy Fighter: 0

Lifboats:
Torpedo (8 person): 73
Lifboat (10 person): 95
Lifboat (20 person): 40
Lifboat (30 person): 3

Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 0.2083
Stellar Survey: 0.4.25
Short Range: 0.4125
Long Range: 0.8250
Navigation: 0.3900
Special: 0.0850
Computers: 2
Type: Daystrom Electronic 19h
Type: Daystrom Electronic 11n

KCM Index: 0.50

Shield Rating:

Shield Index: 0.16
Holdoff Power: 78E+ W
Refresh Rate: 5.07E 0 W
Breakdown Rate: 8.09E+ 0 W
Shield Dimensions (Meters):
Length: 477.8 m
Width: 228.2 m
Height: 122.34 m

Weapons:

Phase Power Index: 0.57
Photon Power Index: 0.000
Vessel Power Index: 0.083
Weapon Placement:

Beam (Phasers) Total: 4 banks 2 each
Output: 5.00E+ W 2.5E W

Range: 2.61E+05 km
Rate of Fire: 30 ppm Com
Forward Banks: 2
Rear Banks: 0
Port Banks: 1
Starboard Banks: 1
Upper Banks: 0
Lower Banks: 0

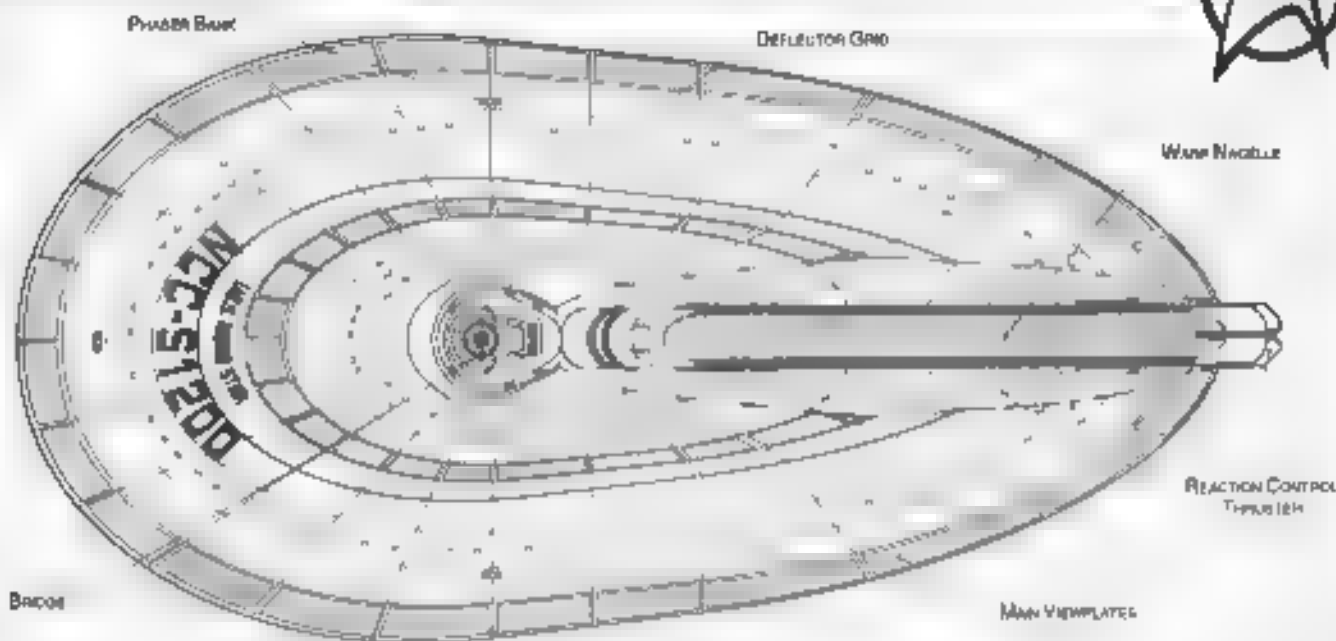
Beam (MegaPhasers) Total: 0
Output: N/A

Range: N/A
Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0

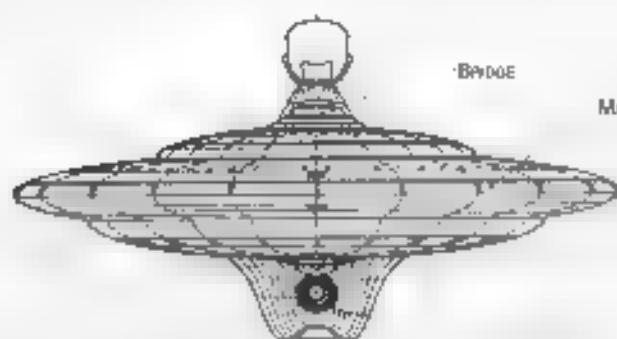
Torpedoes (Photon) Total: 0 Bays
Stock: N/A
Range: N/A
Output: N/A
Rate of Fire: N/A
Forward Bay: 0
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

PRODUCTION OF SAM

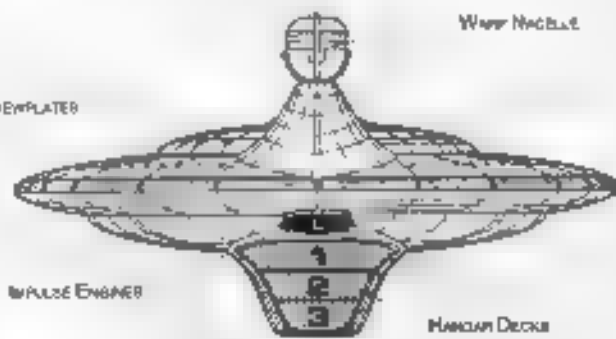
STARLINER



TOP PROFILE

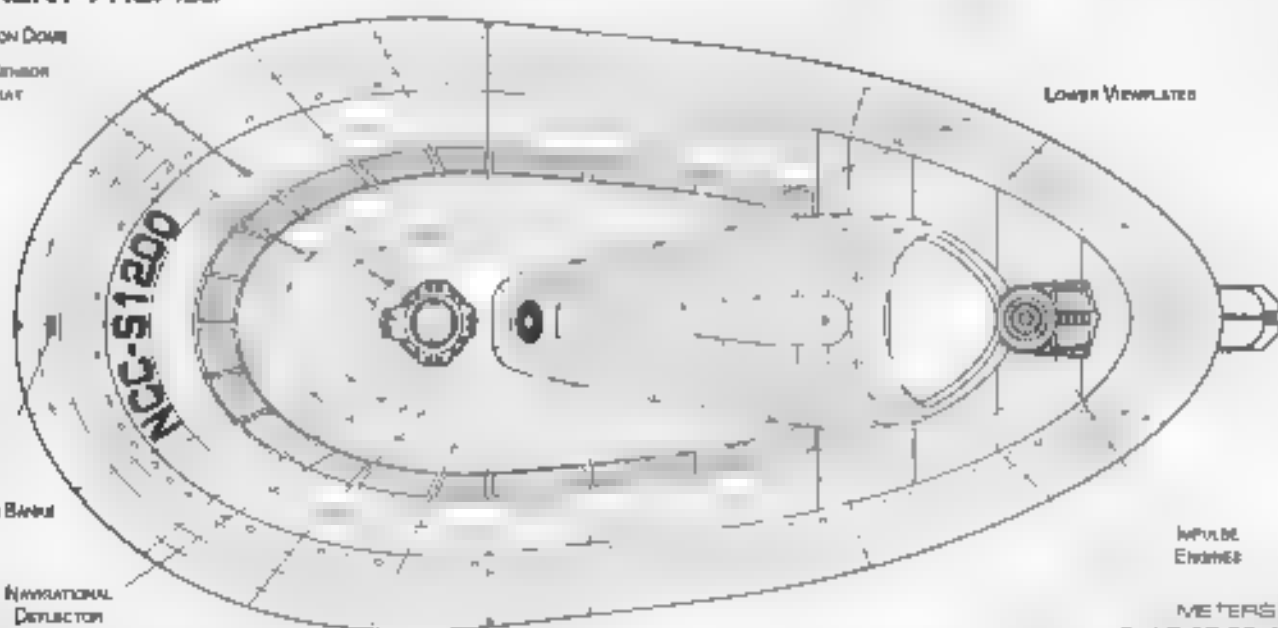


FRONT PROFILE



REAR PROFILE

Navigation Dome
Main Sensor Array



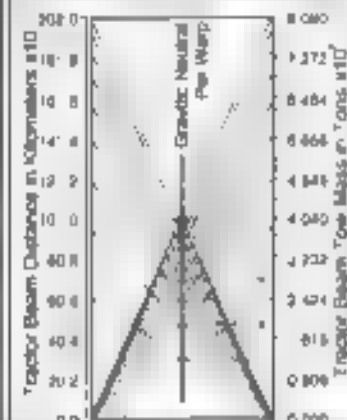
BOTTOM PROFILE

METERS
0 10 20 30 40 50

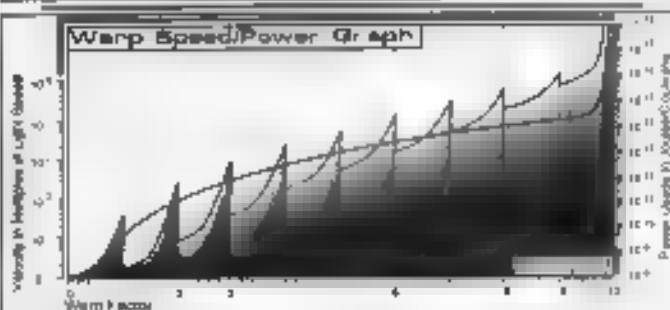
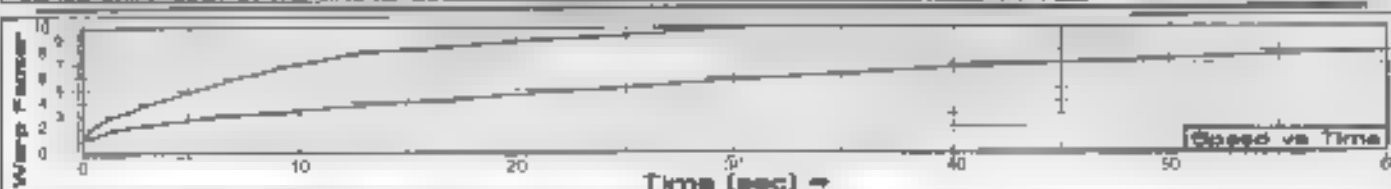


Ship Names

Tractor Beam Specifications

Primary Tractor Beam Load, $\mu\text{m}^2/\text{mm}^2$ [illegible]

CLASS III. DIED IN THE LINE OF DUTY. "PROPOSED. ALL NAMES PRECEDED WITH U.S.A.



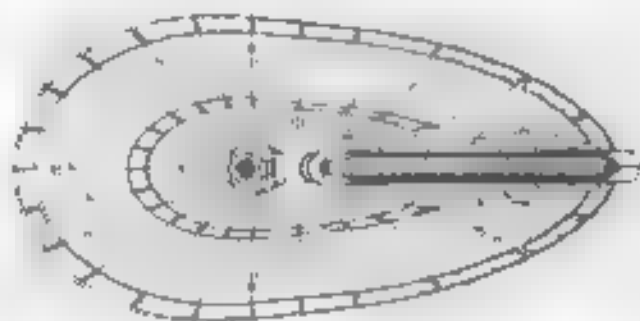
Field Length	885.23m
Field Width	181.16m
Field Height	191.81m



Front Warp Field Profile
Cross Section Area 14133.46 m²



Fort Warr Field Profile
 Gross Surface Area 4811458 m²



Top Warp Field Profile
Cross Section Area 07492.84 m²

WARP FIELDS

SRM3 04:03:08:04

STARFLEET REFERENCE MANUAL

Call 800 551 4633

FEEDBACK ON WEBSIDE

BUOY TENDER



General Information

Specific Role: Buoy tenders are required to install and service the millions of buoys used by the Federation to provide safe travel references within the boundaries of explored space. The construction of the buoy tender is quite simple and cost effective, allowing several ships to be produced each year. Two separate dual impulse units provide precision low speed maneuvering and reliability. When not performing buoy duties, a rare occurrence, these ships can be found deserted at any port of call where the crews take small breaks from their tedious duties.

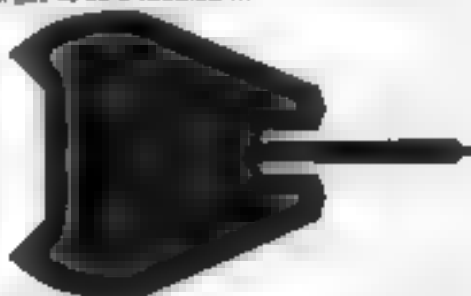
Physical Description: The BS20/C UH bridge is centered on the PH320/C L5 modified primary hull. Three medium hangar bays are bracketed by two (A5, 152) navigational deflector/buoy containment arrays on the front end away of the primary hull. Defense is provided by five (31/2/60/2C) phaser banks, three on top and two underneath. Two (IR-70E/8 R) dual impulse units on the rear of the hull extension provide sublight propulsion. Located between the impulse drives is another medium hangar bay. To the rear of the hull are the M80/2H 4H intermix chamber and matter/antimatter storage tanks. The storage tanks are located behind the impulse engines for emergency jettisoning. In the event of an emergency the primary hull can jettison the warp core and warp nacelle and proceed on impulse power.

Class Emblem

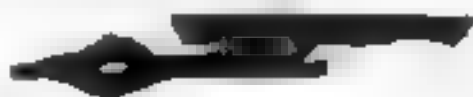


Ship Silhouettes

Total Target Area: 24090.08 m²



Top Silhouette
Area: 17227.49 m²



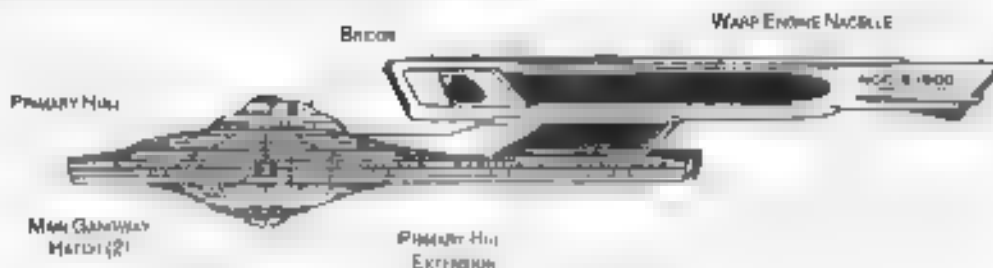
Port Silhouette
Area: 4926.44 m²



Front Silhouette
Area: 2136.15 m²



BUOY TENDER



NAVIGATIONAL DIFFICULTY
BUOY COMPONENT ARMAY

COMPUTER CORE

METERS
0 20 40 60
SCALE 1:1000

CROSS SECTION

Statistics

Classification: Buoy Tender

Category: Support

Class: Mitten

Type: Class 2

Model: MK2-

Hull Construction Contents: 61800

Number Proposed: 98

Number Constructed: 98

Number In Service: 98

Number Lost: 0

Dimensions:

Overall Dimensions (Meters)

Length: 235.00 m

Width: 14.72 m

Height: 4.8 m

Primary Hull Dimensions (Meters)

Length: 80.32 m

Width: 14.72 m

Height: 32.84 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters)

Length: 64.8 m

Width: 12.53 m

Height: 18.22 m

Displacement (Metric Tons)

Light: 107300 mt

Standard: 114000 mt

Full Load: 128732 mt

Performance: mt

Impulse Units: Dual Unit (IRF705/N-W)

Impulse Engines Output: 50E 14 W

Impulse Power Index: 0.50

Max Cruising: C

Acceleration Rate:

0.00-0.25 impulse: 0.055 sec

0.25-0.50 impulse: 0.087 sec

0.50-0.75 impulse: 0.16 sec

0.75-Full impulse: 0.48 sec

Warp Units: Nacelle Units (SW52/N-SB)

Warp Engines Output: 1.5 E+15 W

Warp Power Index: 0.50

Optimum Speed: 4

Max Safe Cruising: 5

Emergency Speed: 7

Max Speed: 8.2

Destructive Speed: 8.4

Acceleration Power: 3

Acceleration Time:

Warp 1 Warp 2: 0.401 sec

Warp 2 Warp 3: 0.542 sec

Warp 3 Warp 4: 2.42 sec

Warp 4 Warp 5: 3.40 sec

Warp 5 Warp 6: 3.13 sec

Warp 6 Warp 7: 4.032 sec

Warp 7 Warp 8: 5.178 sec

Warp 8 Warp 9: 7.400 sec

Warp 9 Warp 10: 12.450 sec

Warp 10 Warp 11: 8.058 sec

Warp 11 Warp 12: 39.520

Duration (Years)

Standard: 7 Years

Maximum: 28 Years

Std. Ships Complement: 215

Officers: 41

Crew (Kadish Grade): 165

Troops: 16

Passengers: 36

Emergency condition: +200 905

Medical Facilities:

Doctors: 2

Nurses: 5

Operating Rooms: 2

Beds: 4

Laboratories: 3

Transport Total: 6

1 Person: 0

2 Person: 0

3 Person: 2

12 Person: 0

32 Person: 2

Small Cargo: 1

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

Bridg: 7

Keelcoaters: 38

Tractor Beams:

Tow Capacity: 3.5 E+06 mt

Max Range: 2.19E 06 km

Cargo Specifications:

Standard Cargo Units: 182

Cargo Capacity: 9100 mt

Shuttlecraft Specifications:

Docking Ports: 3

Shuttlecraft Bays Total: 4

Small Bay: 0

Medium Bay: 4

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 40

Work Bays: 3

Travel Pods: 3

Aquatic Shuttle: 2

Light Shuttle: 2

Standard Shuttle: 8

Heavy Shuttle: 2

Cargo Shuttle: 2

Shooting Shuttle: 4

Killer Bays: 5

Light Fighter: 6

Fighters: 11

Heavy Fighter: 8

Lifboats: 18

Turbolift (8 person): 10

Lifboat (10 person): 6

Lifboat (20 person): 2

Lifboat (30 person): 0

Cloaking Devices: 0

Range Index Values:

Planetary Survey: 0.7353

Stellar Survey: 4707

Short Range: 0.7517

Long Range: 5234

Navigation: 0.3908

Special: 0.4850

Comms: 2

Type: Daystrom Duetronic IIIc

Type: Daystrom Duetronic II:n

PCM Index: 0.50

Shield Rating:

Shield Index: 1.20

Holdoff Power: 35E+12 W

Refresh Rate: 3.80E+ W

Breakdown Rate: 4.82E+ W

Shield Dimensions (Meters)

Length: 352.50 m

Width: 212.58 m

Height: 62.87 m

Weapons:

Photon Power Index: 0.208

Photon Power Index: 0.000

Vessel Power Index: 0.04

Weapon Placement:

Beam (Photon) Total: 5 (Banks 2 each)

Output: 5.00E 1 W 2.5E 1 W

Range: 2.50E+06 km

Rate of Fire: 20 ppm Cont

Forward Banks:

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhoton) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

BUOY TENDER



IMPULSE CLASS

FEDERATION VESSEL

PHASER BANK

DEFLECTOR GRID

WARP NACEL

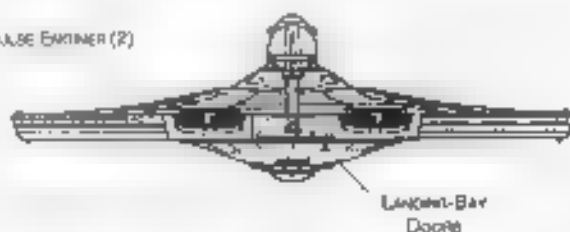
IMPULSE ENGINE(2)

REACTION CONTROL
THRUSTER

TOP PROFILE



IMPULSE ENGINE (2)



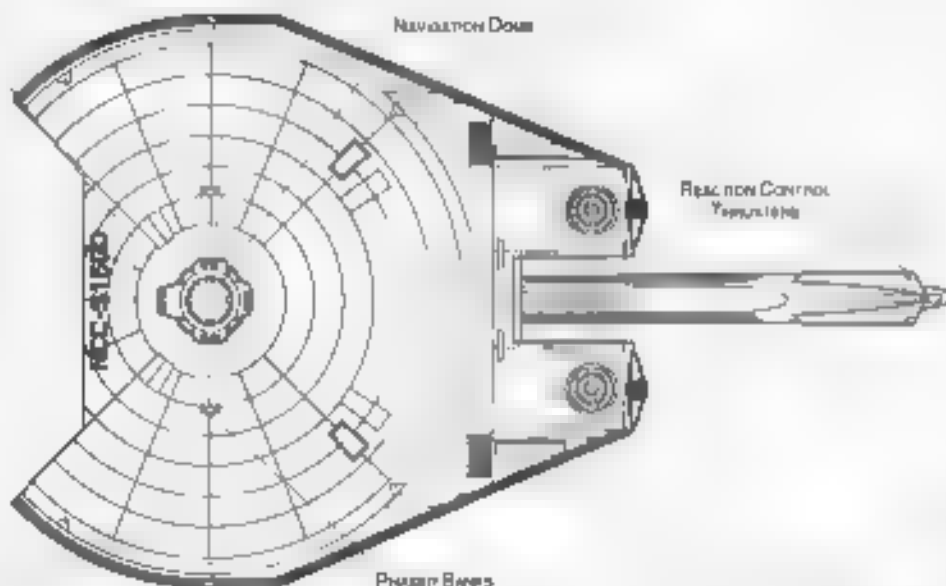
MAIN SENSOR
ARRAY

NAVIGATION DOME

REACTION CONTROL
THRUSTER

PHASER BANKS

BOTTOM PROFILE



METERS
0 10 20 30 40 50
SCALE IN METERS



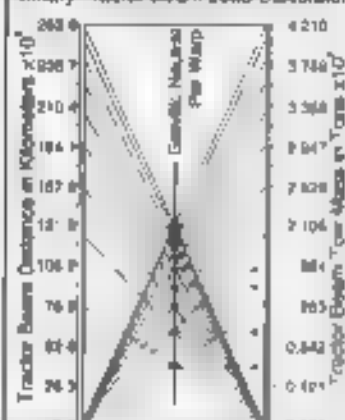
BUOY TENDER

THE FOLLOWING SHIPS OF THE MK-41 CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2000.8

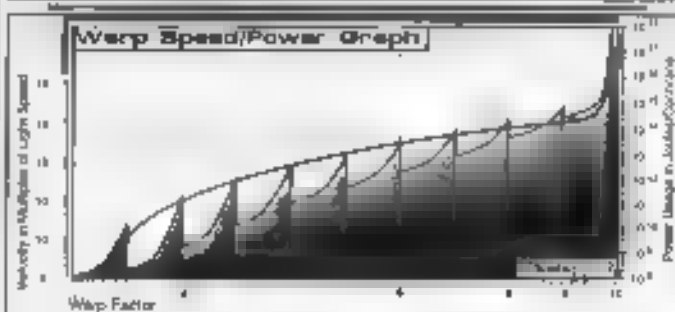
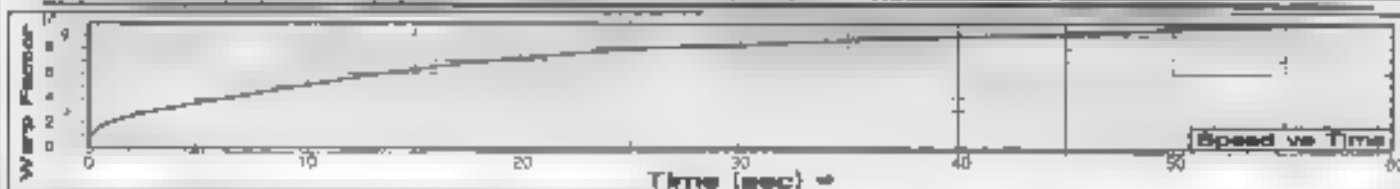
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Tractor Beam Specifications

Primary Traction (Horn) Loan Conclusion



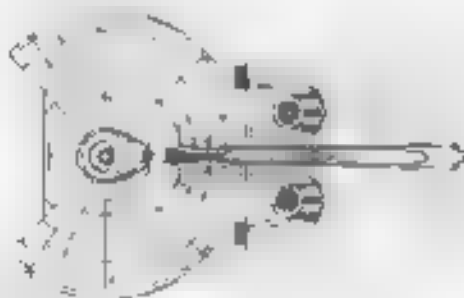
CLASS NAME: TROTT IN THE LINE OF DUTY, "EMERGENCY. ALL NAMES PRECEDED WITH U.S.



Field Length: 5-6m 1.4m
Field Width: 1.87-2.00m
Field Height: 2.75-4.00m



Front Warp Field Profile
Cross Section Area 11500.12 m²

Port Warp Field Profile
Cross Section Area: 20225.88 m²

Top Warp Field Profile
East Section Area: 40004.50 m²

WARP FIELDS

SRM3 04:03:09:04

STARFLEET REFERENCE MANUAL

NIPPEN CLASS

FEDERATION OF MEDICAL SOCIETIES OF THE UNITED STATES OF AMERICA

HEAVY TUG



General Information

Specific Role: The Faranarton Class Heavy Tug is based on the Kobayashi Maru hull. These tugs are widely used in ship-yards and space-dock construction facilities. Several work bees are stored in the hangar bays for non-propelling small tasks. Although this vessel is an older design, its cheap maintenance cost allow many to remain in service for exceptionally long careers.

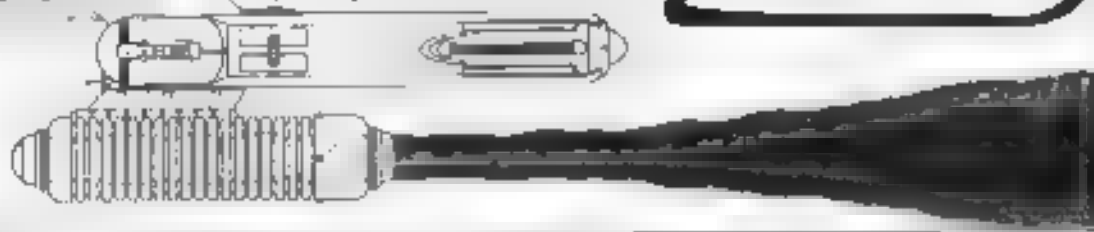
Physical Description: The (FC5/C P3) standard bridge is centered on the top of the rectangular primary hull. The (DN5/A9) main navigation deflector is mounted on the front of the (SH92/C L2N) secondary hull which mainly consists of connecting pylons and access walk-ways. A small hangar bay faces forward and three more bays face aft. There is standard cargo storage between the front and rear bays. Sensing underneath the (TF25/15N) pylons are two (TFH1,000/2) heavy duty extended cycle tractor beam emitters, four (SL7/15 TC) shapers, two forward, one to the rear and one underneath of the primary hull provide basic defense. Warp speed propulsion is provided by two (SC35/145M) self contained warp engine nacelles, mounted to either side and are supported by (KM32.6P) standard pylons. A (TF25E/20R) dual impulse unit is located on the rear of the primary hull just under the shuttle bays. In the event of an emergency, the self contained warp core, nacelles and nuclear modules can be independently jettisoned and the carrier can continue on impulse until its fuel supply is depleted.

Class Emblem



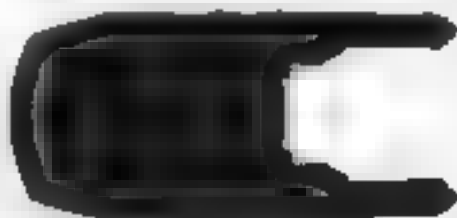
Faranarton Class

Heavy Tug



Ship Silhouettes

Total Target Area 30888.21 m²



Top Silhouette
Area 18542.78 m²



Port Silhouette
Area 7048.98 m²

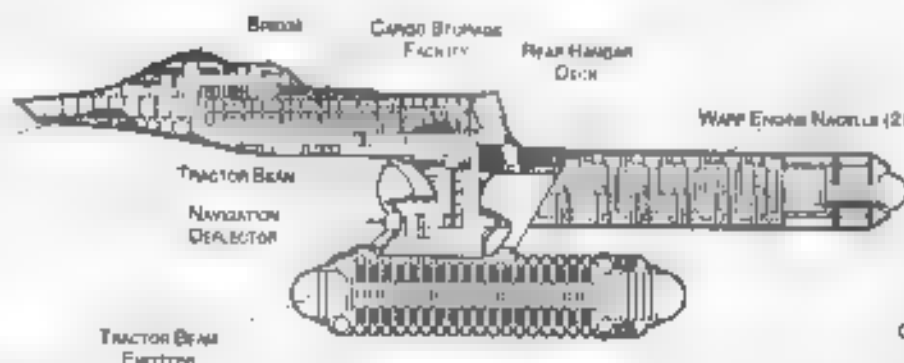
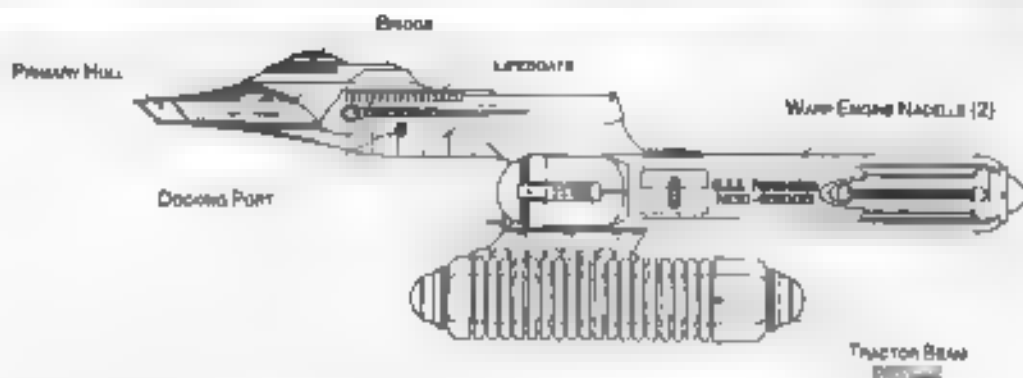


Front Silhouette
Area 5274.05 m²



HEAVY TUG

FEDERATION CLASS



METERS
0 20 30 40 50
SCALE

CROSS SECTION

Statistics

Classification: Heavy Tug

Category: Tug

Class: Federation

Type: Cargo

Model: MK2-VIII

Naval Construction Contract: 80000

Number Produced: 78

Number Constructed: 78

Number in Service: 74

Number Lost: 4

Dimensions:

Overall Dimensions (Meters)

Length: 237.01 m

Width: 03 m

Height: 16.11 m

Primary Hull Dimensions (Meters)

Length: 276.90 m

Width: 207.57 m

Height: 116.67 m

Secondary Hull Dimensions (Meters)

Length: N/A m

Width: N/A m

Height: N/A m

Warp Unit Dimensions (Meters)

Length: 280.16 m

Width: 45.01 m

Height: 40.4 m

Displacement (Metric Tons)

Light: 45940 m

Standard: 50750 m

Full Load: 74548 m

Performance: m

Impulse Thrust: Dual Unit (MP25E/2-M)

Impulse Engine Output: 0.80E+13 W

Impulse Power Index: 0.74

Max Cruising: C

Acceleration Rate:

0.00-0.28 Impulse: 0.20 sec

0.28-0.80 Impulse: 0.475 sec

0.80-0.78 Impulse: 0.833 sec

0.78-Full Impulse: 0.750 sec

Warp Units: 2 Nacelle Unit (SC351-45F)

Warp Engine Output: 3.02E+13 W

Warp Power Index: 0.74

Optimum Speed: 5

Max. Safe Cruising: 6

Emergency Speed: 6.6

Max. Speed: 8

Disruptive Speed: 6.6

Acceleration Power: 3

Acceleration Times:

Warp 1 Warp 2: 0.273 sec

Warp 2 Warp 3: 0.407 sec

Warp 3 Warp 4: 1.85 sec

Warp 4 Warp 5: 2.74 sec

Warp 5 Warp 6: 2.638 sec

Warp 6 Warp 7: 2.742 sec

Warp 7 Warp 8: 3.620 sec

Warp 8 Warp 9: 5.034 sec

Warp 9 Warp 10: 18 sec

Warp 10 Warp 11: 12.06 sec

Warp 11 Warp 12: 28.876 sec

Duration (Years)

Standard: 7 Years

Maximum: 28 Years

Est. Ship Completion: 00

Officers: 0

Crew (Single Grade): 80

Troops: 0

Passengers: 180

Emergency condition: + 512.606

Medical Facilities:

Doctors: 1

Nurses: 2

Operating Rooms: 0

Beds: 5

Laboratories: 4

Transport Total: 7

1 Person: 0

2 Person: 0

5 Person: 2

13 Person: 0

22 Person: 2

Small Cargo: 2

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

Bridge: 9

Reconnaissance: 12

Tractor Beam:

Tow Capacity: 2.08E+07 m

Max Range: 3.22E+05 km

Cargo Specification:

Standard Cargo Units: 320

Cargo Capacity: 18000 m

Ship Aircraft Specifications:

Docking Ports: 4

Shuttlecraft Bays Total: 4

Small Bay: 4

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 22

Work Bays: 2

Travel Pods: 2

Aquatic Shuttle: 2

Light Shuttle: 0

Standard Shuttle: 0

Heavy Shuttle: 2

Shutups: 0

Assault Shuttle: 0

Killer Bays: 0

Light Fighter: 0

Fighter: 0

Heavy Fighter: 0

Lifboats: 0

Turbolift (8 person): 0

Lifboat (10 person): 4

Lifboat (20 person): 2

Lifboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.0115

Stellar Survey: 0.4230

Short Range: 0.4230

Long Range: 0.8458

Navigation: 0.2895

Special: 0.0483

Cameras: 2

Type: Daystrom Destructive IIIa

Type: Daystrom Destructive IIIa

ECM Index: 0.50

Shield Rating:

Shield Index: 0.4

Shield Power: 4.66E+11 W

Breakdown Rate: 1.83E+11 W

Breakdown Rate: 1.83E+11 W

Shield Dimensions (Meters)

Length: 365.52 m

Width: 168.66 m

Height: 4.17 m

Weapons:

Phaser Power Index: 0.083

Photon Power Index: 0.000

Torpedo Power Index: 0.042

Weapon Placement:

Beam (Phasers) Total: 2 banks 2 each

Output: 5.00E+11 W 2.6E+11 W

Range: 2.40E+06 km

Rate of Fire: 30 ppm Com

Forward Banks: 1

Rear Banks: 1

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (Photon) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 0 Bays

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bays: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

HEAVY TUG



DEFLECTOR GRID

PULSAR BANK

BRIDGE

WARP SUPPORT
PYLONLANDING-BAY
DOORS

WARP ENGINE NOZZLES (2)

TOP PROFILE

BRIDGE SECTION

IMPAULS OF ENGINES

PRIMARY DOCKING
PORTNAVIGATION
DEFLECTORLANDING-BAY
DOORS

WARP ENGINE NOZZLES (2)

FRONT PROFILE

FORWARD TACTICAL
BEAM EMITTER

REAR PROFILE

REAR TACTICAL
BEAM EMITTER

DEFLECTOR GRID

TRACTOR BEAM HOUSING

WARP ENGINE NOZZLES (2)

FORWARD
LOCK

BOTTOM PROFILE

METERS
0 10 20 30 40 50



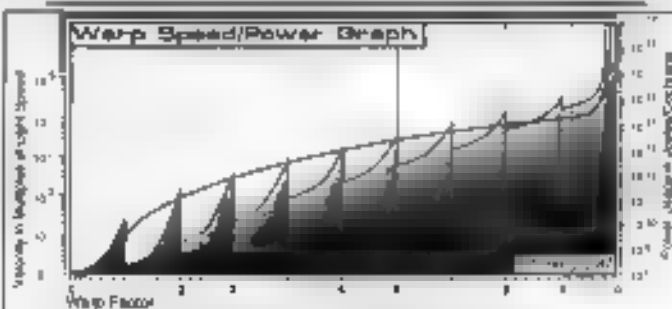
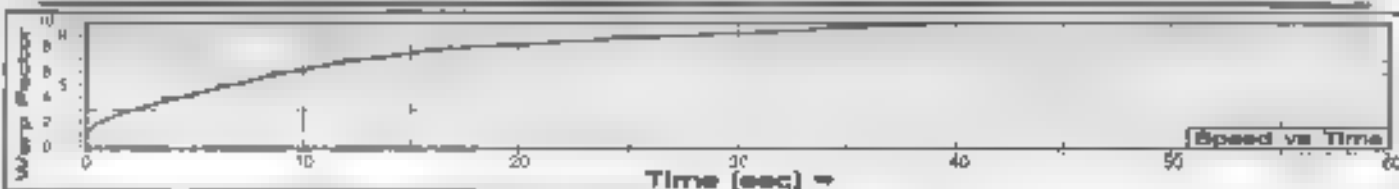
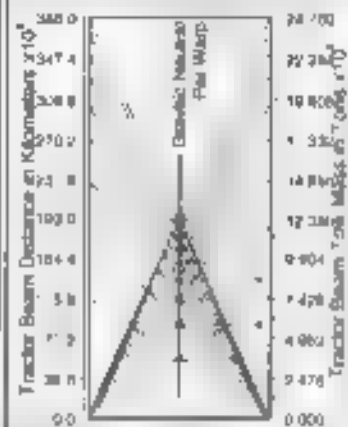
Tractor Beam Specifications

THE FOLLOWING SHIPS OF THE MK2-VII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2054.6

[illegible]

FLAME SHIP, LOST IN THE LINE OF DUTY. PROPOSED ALL NAVALIAN PATTERNS WITH U.S.A.

Primary Tardive Dyskinesia and Abnormalities



Field Length 545.00m
Field Width 177.08m
Field Height 94.26m



Front Warp Field Profile
Cross Section Area: 13000.00 m²

Porta Warp Field Profile
Crust Station Area 87000.00 m²

Top Warp Field Profile
Cross Section Area 2103450 m²

WARP FIELDS

SAM3 04:03:10:04

STARFLEET REFERENCE MANUAL

FAHANNAPTON CLASS

FEDERATION VESSE

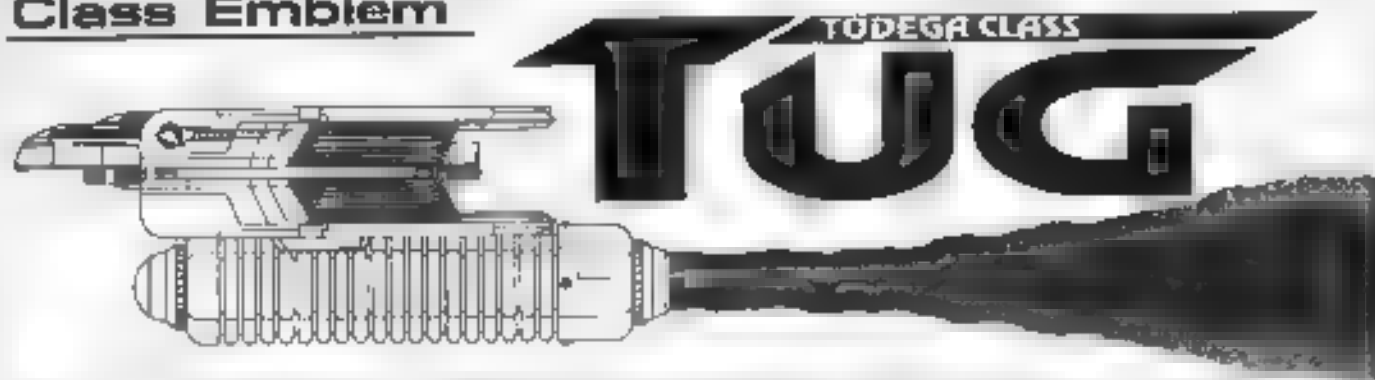


General Information

Specific Role: The Todega Class Tug with four warp nacelles is a highly efficient tractor-beam workhorse and can be found throughout the Federation. Tugs are used extensively moving ships and station facilities around which are unable to propel themselves. As a cost saving measure the hull is a modified Oberth Class research vessel upper section.

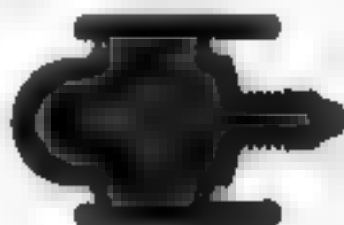
Physical Description: The (S-103/A T8) primary hull is equipped with additional power conduits and backup systems. The vessel is equipped with a (RT5/A C5) bridge which incorporates additional navigational instrumentation. On the lower part of the hull is the (SM15/4C) main sensor array and (DN2/ZR) navigational dome. Positioned forward of the bridge is a (P2/X 2C) phaser bank. At the rear of the primary hull are two (SR10K 2 SA) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel's warp fields are generated by four (SC 58/ 2RT) warp nacelles attached to each side of the hull. Running horizontally between the nacelles is the (M24/ 1 2T) internal channel. Insured to the rear of the hull are the (AM1 5 2L) matter/ antimatter storage tanks for emergency refueling. On the front of the hull is a small launch deck. Strung underneath the primary hull by two (TC 30 15G) connecting dorsals is a (P11 C, P12) tractor beam emitter. In the event of an emergency, the primary hull can separate from one or more of the warp nacelles and proceed on the remaining nacelle(s) or impulse power for extended periods of time.

Class Emblem



Ship Silhouettes

Total Target Area 10468.00 m²



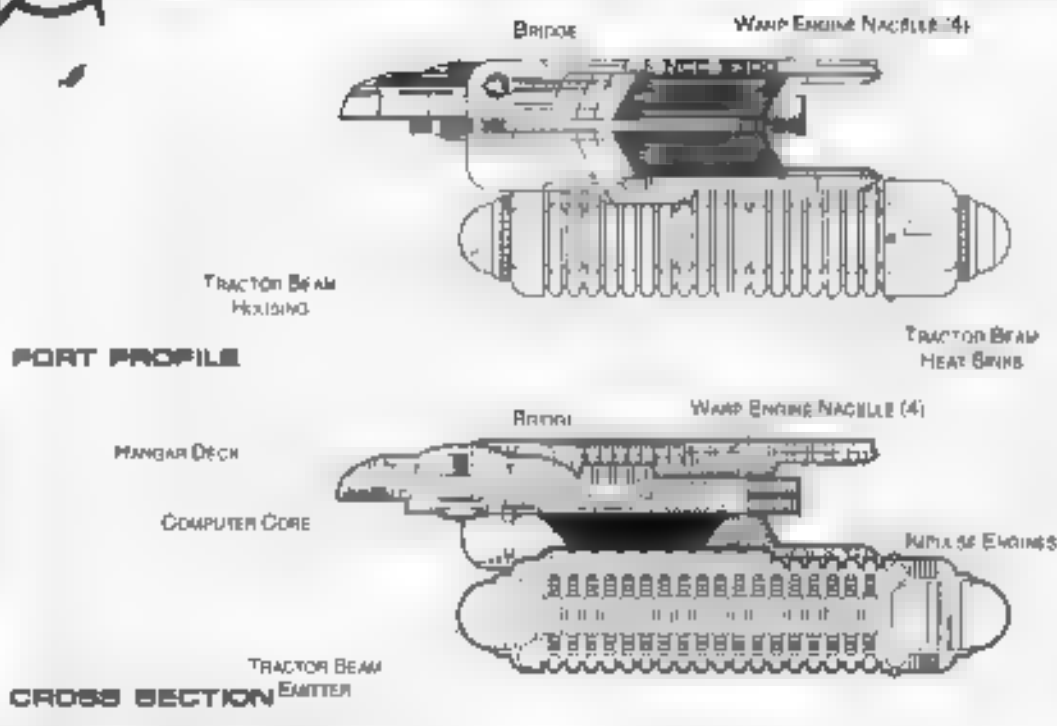
Top Silhouette
Area 7348.78 m²



Port Silhouette
Area 4084.01 m²



Front Silhouette
Area 1717.80 m²



Statistics

Classification: Tug
Category: Tug
Class: Todega
Type: Class 2
Model: MK2-B
Naval Construction Contract: 3000
Number Produced: 62
Number Constructed: 62
Number in Service: 78
Number Lost: 8
Dimensions:
Overall Dimensions (Meters):
 Length: 33.4 m
 Width: 82.0 m
 Height: 41.38 m
Primary Hull Dimensions (Meters):
 Length: 22.0 m
 Width: 82.0 m
 Height: 21.44 m
Secondary Hull Dimensions (Meters):
 Length: N/A m
 Width: N/A m
 Height: N/A m
Warp Unit Dimensions (Meters):
 Length: 11.0 m
 Width: 11.0 m
 Height: 2.7 m
Displacement (Metric Tons):
 Light: 1.42 m
 Standard: 5.500 m
 Full Load: 8428 m
Performance:
 Impulse Drive: Dual Dual (JBR10E/2-BAY)
 Impulse Engine Output: 940E 12 W
 Impulse Power Index: 0.64
 Max Cruising: C
 Acceleration Rate:
 0.00-0.25 Impulse: 0.451 sec
 0.25-0.50 Impulse: 0.710 sec
 0.50-0.75 Impulse: 0.948 sec
 0.75-Full Impulse: 165 sec
 Warp Drive: 2 Nacelle Units (SU38/ 2RT)
 Warp Engine Output: 9.68E+ 4 W
 Warp Power Index: 0.64

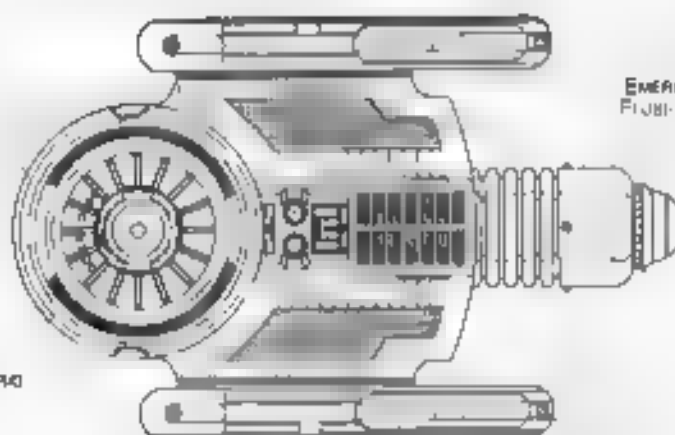
Optimum Speed: 4
Max Safe Cruising: 4
Emergency Speed: 7
Max Speed: 8
Destructive Speed: 8.5
Acceleration Power: 3
Acceleration Times:
 Warp 1 Warp 2: 0.314 sec
 Warp 2 Warp 3: 0.502 sec
 Warp 3 Warp 4: 0.800 sec
 Warp 4 Warp 5: 2.32 sec
 Warp 5 Warp 6: 2.42 sec
 Warp 6 Warp 7: 58 sec
 Warp 7 Warp 8: 4.05 sec
 Warp 8 Warp 9: 1.184 sec
 Warp 9 Warp 9.5: 2.876 sec
 Warp 9.5 Warp 9.75: 4.918 sec
 Warp 9.75 Warp 9.9: 30.404
Duration (Years):
 Standard: 4 Years
 Maximum: 24 Years
Std. Ships Complement:
 Officers: 0
 Crew (Ensign Grade): 22
 Troops: 0
 Passengers: 0
 Emergency condition: + 53.79
Medical Facilities:
 Doctors: 0
 Nurses: 2
 Operating Rooms: 10
 Beds: 5
Laboratories: 2
Isolation Level Total: 3
 1 Person: 0
 2 Person: 0
 8 Person: 0
 12 Person: 0
 22 Person: 0
 Small Cargo: 1
 Medium Cargo: 0
 Large Cargo: 0
 Super Cargo: 0

Range: 3
Replicators: 4
Tractor Beams:
 Tow Capacity: 29E+07 m
 Max Range: 2.50E+05 km
Cargo Specifications:
 Standard Cargo Dials: 70
 Cargo Capacity: 3500 m
Shuttlecraft Specifications:
 Docking Ports:
 Shuttlecraft Bays Total: 1
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 19
 Work Bays: 1
 Travel Pods:
 Aquatic Shuttle: 0
 Light Shuttle: 0
 Standard Shuttle: 0
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 0
 Killer Bays: 2
 Light Fighter: 2
 Fighter:
 Heavy Fighter: 2
 Lifeboats: 11
 Turbolift (8 person): 7
 Lifeboat (10 person): 3
 Lifeboat (20 person): 3
 Lifeboat (50 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.1728
 Stellar Survey: 0.3738
 Short Range: 0.387
 Long Range: 0.8258
 Navigation: 0.3228
 Special: 3.0667
Computer: 2
 Type: Daystrom Destructive Ind
 Type: Daystrom Destructive Ind

ECM Index: 0.48
Shield Rating:
 Shield Index: 0.29
 Holdoff Power: 3.25E+1 W
 Refresh Rate: 0.29E+10 W
 Breakdown Rate: 1 E-11 W
 Shield Dimensions (Meters):
 Length: 200.12 m
 Width: 124.48 m
 Height: 1.02 m
Weapons:
 Phaser Power Index: 0.063
 Photon Power Index: 0.000
 Vessel Power Index: 0.042
Weapon Placement:
 Beam (MegaPhaser) Total: 2 banks 2 each
 Output: 5.00E W 2.6E 1 W
 Range: 2.00E+05 km
 Rate of Fire: 30 ppm Cont
 Forward Banks: 0
 Rear Banks: 0
 Port Banks: 0
 Starboard Banks: 0
 Upper Banks:
 Lower Banks:
 Beam (MegaPhaser) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
 Torpedoes (Photon) Total: 0 Bays
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
 Forward Bay: 0
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0



PHASER BANK

EMERGENCY
FLIGHT VENTS

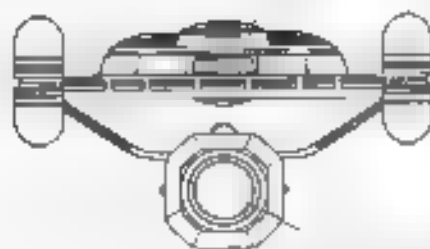
DEFLECTOR GRID

TRACTION BEAM
HOUSINGREACTION CONTROL
THRUSTER

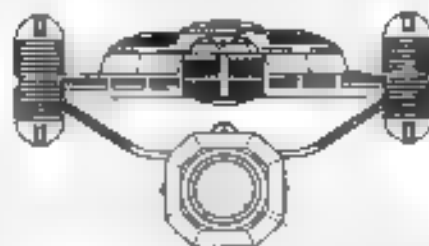
WARP NACELLE (4)

TOP PROFILE

HANGAR DECK



IMPULSE ENGINES

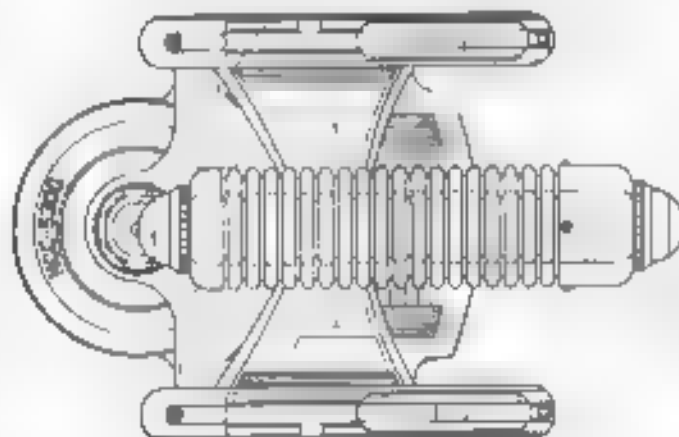
FORWARD TRACTOR
BEAM EMITTERREAR TRACTOR
BEAM EMITTER

FRONT PROFILE

REAR PROFILE

MAIN SENSOR
ARRAY

NAVIGATION DOME

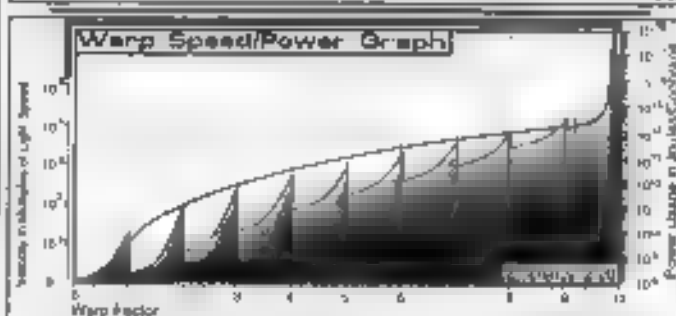
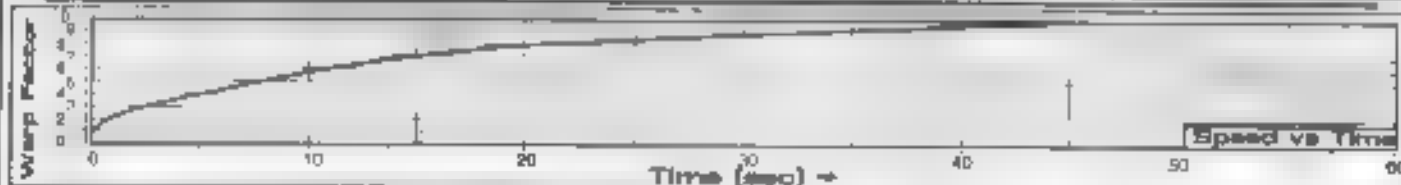
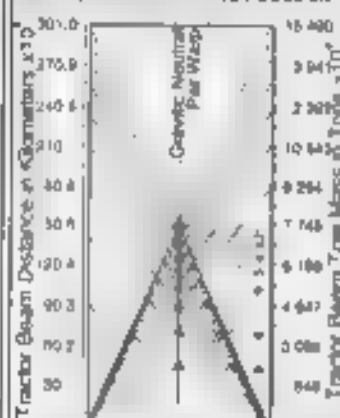
TRACTION BEAM
HOUSING

BOTTOM PROFILE



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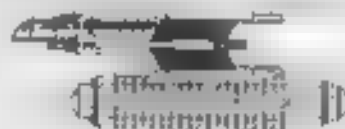
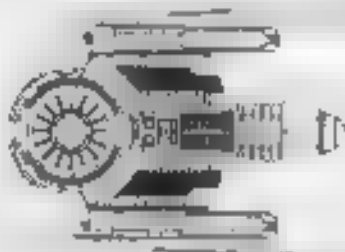
Primary Factorial Beam Load Calculations



Field Length 448.30m
Field Width 1 677m
Field Height 74.88m



Front Warp Field Profile
Gross Section Area 2087.46 m²

Port Warp Field Profile
Cross Section Area 22541.30 m²

Top Warp Field Profile
Cross Section Area 41378.84 m²

WARP FIELDS

SAM3 04:03:11:04

STARFLEET REFERENCE MANUAL

TODEGA CLASS

FEEDER VESSEL

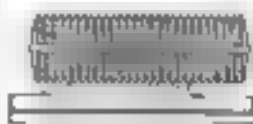


CONTAINER WARP EXTENDER

General Information

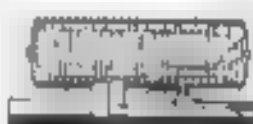
The Container Warp Extender simply extends a warp field by using a technique called sub-space resonance coupling. The design consists of an intermix of amber warp coils and fuel cells in a single housing mounted to a container attachment plate. Explosive bolts can blow the whole unit clear of the container in the event of an emergency.

Warp Enhancement Coils



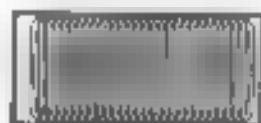
PORT PROFILE

Warp Coils



CROSS SECTION

Intermix Chamber



TOP PROFILE

MATTER/ANTIMATTER STORAGE TANKS



FRONT PROFILE

Coil Housing



REAR PROFILE

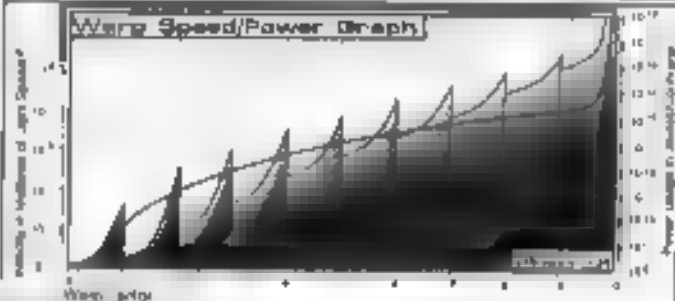
TURBOCHARGER AUGMENT SHAFTS



BOTTOM PROFILE

CONTAINER ATTACHMENT PLATE

METERS
0 10 20 30 40 50

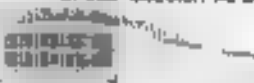


Field Length +231.8km
Field Width 1.0km
Field Height 107.4km



Front Warp Field Profile

Cross Section Area 2222.00 m²



Port Warp Field Profile

Cross Section Area +12720.00 m²



Top Warp Field Profile

Cross Section Area +17536.00 m²

Statistics

Classification: **Enhancer Class**
Category: **Warp Extender**
Class: **Enhancer**
Type: **Warp**
Model: **Warp**

Level: **Enhancer**
Number of Engines: **200**
Number of Engines: **200**
Number of Engines: **200**
Number of Engines: **200**
Number of Engines: **200**

Overall Dimensions (Meters)
Length: **20.0m**
Width: **10.0m**
Height: **10.0m**
Warp Unit Dimensions (Meters)
Length: **10.0m**
Width: **10.0m**
Height: **10.0m**

Displacement (Metric Tons)
Standard: **0.0m**
Warp: **0.0m**
Warp: **0.0m**
Warp: **0.0m**
Warp: **0.0m**

Performance
Inertial Units: **N/A**
Impulse Engines Output: **N/A**
Max. Thrust: **N/A**
Acceleration: **N/A**
Acceleration: **N/A**
Acceleration: **N/A**

Warp Units: **Warp Units (Warp Units)**
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Warp Units: **Warp Units (Warp Units)**

Warp Engine Output: **20.0m**
Optimum Speed: **Warp Units**
Max. Thrust: **Warp Units**
Emergency Speed: **Warp Units**
Max. Speed: **Warp Units**
Decelerative Speed: **Warp Units**

Acceleration Power: **30**
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DEUTERIUM CONTAINER

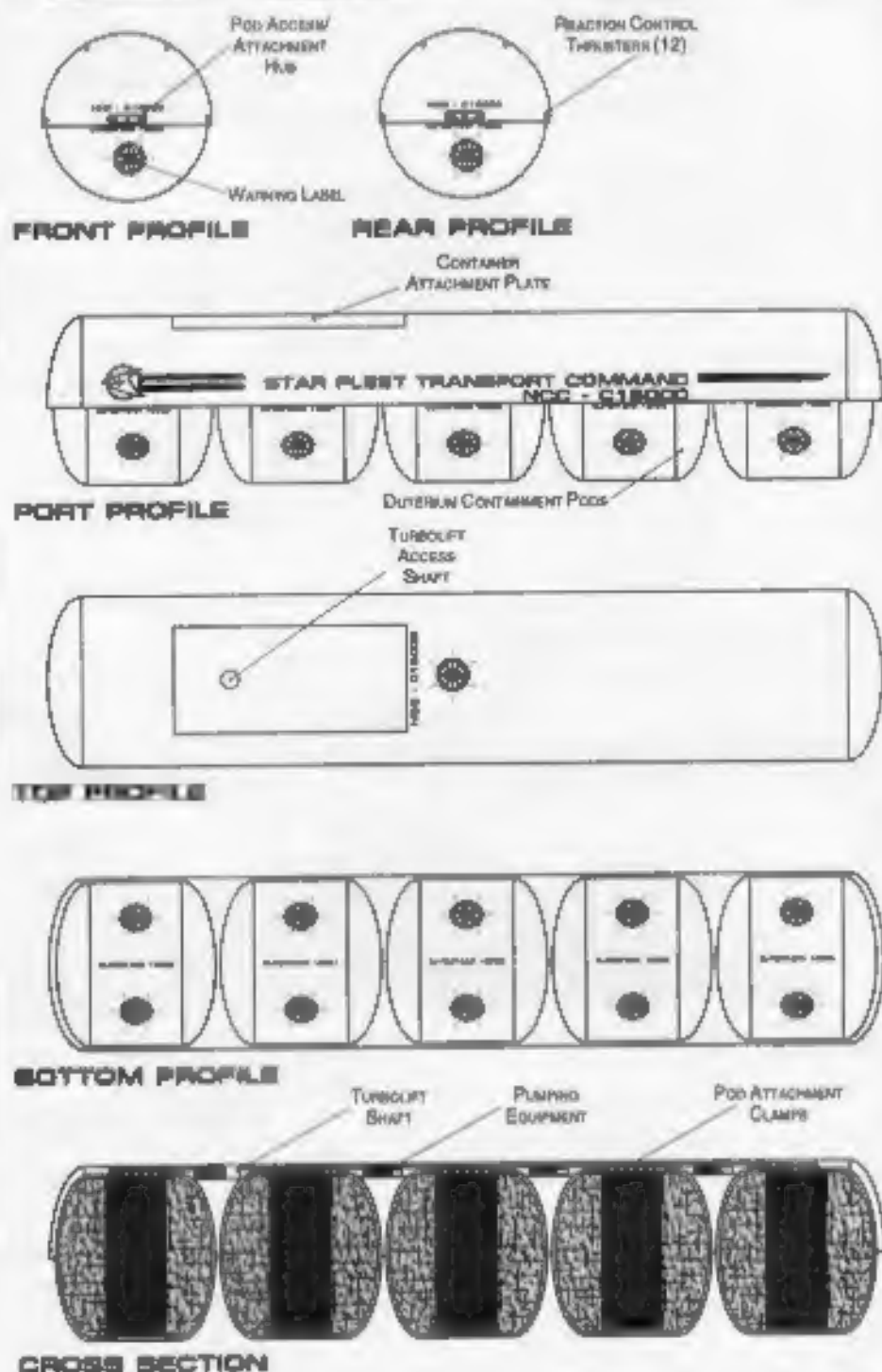


Statistics

Classification: Container
Category: Deuterium Container
Type: Class 7
Model: MK-XVI
Dimensions:
 Overall Dimensions (Meters)
 Length: 235.06m
 Width: 48.00m
 Height: 25.83 / 47.71m
 Displacement (Metric Tons)
 Standard: 125,356mt
 Full Load: 558,126mt
 Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 0
Officers: 0
Crew (Starline Grade): 0
Passengers: 0
Emergency condition: +0
Medical Facilities:
Doctors: 0
Nurses: 0
Operating Rooms: 0
Beds: 0
Transportation Total: 2
 1 Person: 0
 3 Person: 0
 6 Person: 0
 12 Person: 0
 22 Person: 0
 Small Cargo: 0
 Medium Cargo: 2
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
Troop Beams: 0
Tow Capacity: N/A
Max. Range: N/A
Cargo Specification:
 Standard Cargo Units: N/A
 Cargo Capacity: N/A
 Deck Height: N/A
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 0
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 0
 Work Bee: 0
 Travel Pod: 0
 Light Shuttle: 0
 Aquatic Shuttle: 0
 Shuttle Standard: 0
 Assault Shuttle: 0
 Fighter: 0
 Heavy Fighter: 0
Lifboats: 0
 Turbolift (8 person): 0
 Lifboat (10 person): 0
 Lifboat (30 person): 0
 Lifboat (50 person): 0
Docking Rings: 2
Sensor Input Values:
 Planetary Survey: 0.000
 Short Range: 0.000
 Long Range: 0.000
 Navigation: 0.000
 Spectral: 0.000
Computers: 1
 Type: Daystrom Duotronic III
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 9.21E7
 Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.8m
 Height: 57.8m

General Information

The Deuterium Container is a modular deuterium super-tanker system. Each pod can be independently removed for use or service and can be jettisoned in an emergency.



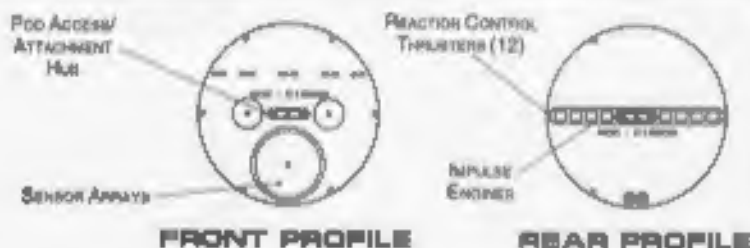
METERS
 0 10 20 30 40 50
 SCALE 1:2000



TENDER CONTAINER

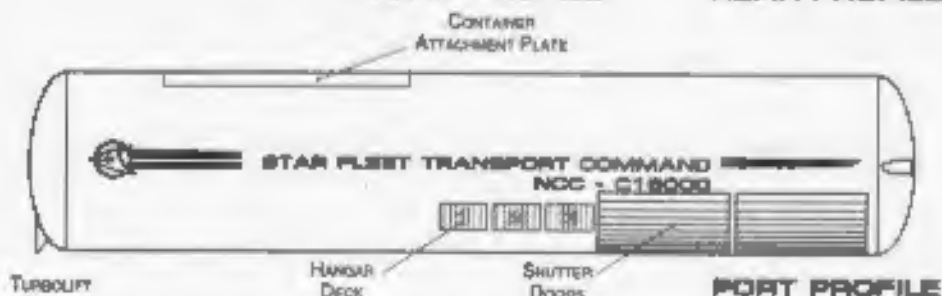
General Information

The Tender container carries parts and repair facilities normally to large or obscure to be included in a starships inventory. When attached to a container tug this facility can get to stranded vessels and replace their warp core or repair hull breaches before it has to be abandoned. Starfleet has saved much time and money with this system.

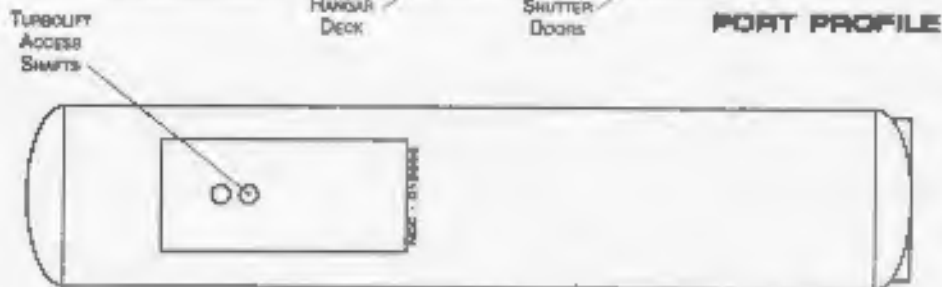


FRONT PROFILE

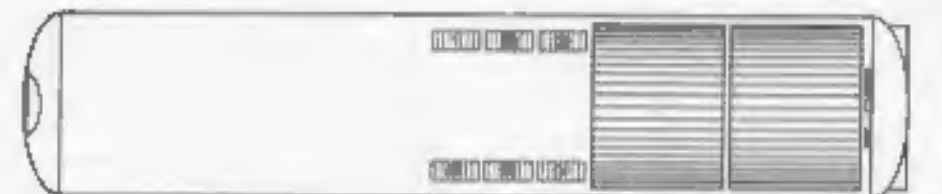
REAR PROFILE



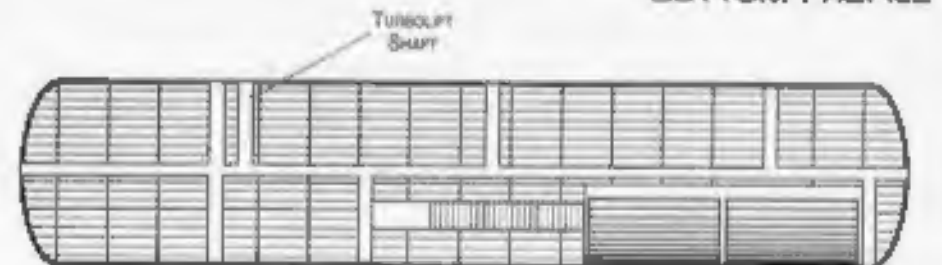
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION

METERS
0 10 20 30 40 50
SCALE 1:2000

Statistics

Classification: Container
Category: Tender Container
Type: Class 7
Model: MK-XVI
Dimensions:
Overall Dimensions (Meters)
Length: 235.05m
Width: 48.00m
Height: 48.00m
Displacement (Metric Tons)
Standard: 235,347mt
Full Load: 347,442mt
Duration (Years)
Standard: 15 Years
Maximum: 20 Years
Std. Container Complement: 115
Officers: 15
Crew (Ensign Grade): 100
Passengers: 30
Emergency condition: +200
Medical Facilities:
Doctors: 2
Nurses: 8
Operating Rooms: 3
Beds: 10
Transporters Total: 12
1 Person: 0
2 Person: 0
3 Person: 4
12 Person: 2
23 Person: 0
Small Cargo: 0
Medium Cargo: 4
Large Cargo: 2
Super Cargo: 0
Mega Cargo: 0
Tractor Beams: 0
Tow Capacity: 1.25x10⁶mt
Max. Range: 2.51x10⁶km
Cargo Specifications:
Standard Cargo Units: 150
Cargo Capacity: 7,500 mt
Deck Height: 2.4 m
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 3
Small Bay: 0
Medium Bay: 1
Large Bay: 2
Super Bay: 0
Shuttlecraft Standard: 13
Work Bench: 2
Travel Pods: 1
Light Shuttle: 1
Standard Shuttle: 2
Passenger Shuttle: 1
Light Cargo Shuttle: 2
Cargo Shuttle: 2
Heavy Cargo Shuttle: 2
Lifeboats: 7
Turbolift (8 person): 8
Lifeboat (10 person): 0
Lifeboat (20 person): 2
Lifeboat (30 person): 0
Docking Rings: 2
Repair Input Values:
Planetary Survey: 0.020
Short Range: 0.020
Long Range: 0.020
Navigation: 0.020
Special: 0.020
Computers: 1
Type: Daystrom Duetronic II2
Shield Rating:
Holdoff Power: 3.24E8
Refresh Rate: 9.21E7
Shield Dimensions (Meters)
Length: 282.01m
Width: 57.6m
Height: 57.6m

DELIVERANCE CLASS

FEDERATION CONTAINER

CLOSING

Closing Information

Closing

First off I would like to express my thanks to you for purchasing this book. I have tried to give the most information that I can for each ship without reducing the number of ships described. This in turn has lead to small print. I hope that this is not an inconvenience to anyone and if it is, I would like to express my deepest apology.

Stardate Errata

In place of the stardates, I have used the actual YEAR.MONTH due to the fact that I can not get an accurate stardate, as every group has a stardate system that while close, do not all match (Some systems differ by as much as 50 years). To achieve the stardate you need just use the date given and apply it to the stardate system you are acquainted with.

Warp speed Errata

I have had a number of people inquire as to why I have used the new warp curve system on older ships. The thing to understand here is that this curve also fits the older ships and is simply a conversion; when I get around to drawing the new ships the statistics will match and a ship to ship comparison can be made. A conversion chart has been included at the beginning of the ship section so that you can convert back to the old warp numbers.

Error in 1701B Cross Section

The cross section that appears in the back of the bridge is seriously flawed. If we assume the established length is 467 meters and the height is 74.93 meters. The bridge display cross section has 36 decks which works out to 2.08 meters (6.5 feet) per deck. This is a little on the short side since the average room height is 8 feet. The established deck height is 2.75 meters, which works out to 9 feet (8 feet to live in and 1 foot for flooring, conduit, supports and extra seldom seen high tech items). The location of the navigational deflector is shown over the cowl and not through as seen in the movie. The forward photon torpedoes are positioned in the connecting dorsal which would cause them to shoot off the navigational dome, which is probably a good reason why they had no torps until Tuesday. I changed the torp placement back to the original established location. I moved the rear torps into their original location for the same reason. The intermix chamber had to be moved since the new navigational deflector placement conflicted with the jetisoning of the core. The core is aligned with the deflection crystals, located on the upper engineering deck, which allows the core to be jettisoned through a plate in the navigational deflector opening. I have tried to match the remaining information provided in the cross section which shows the additions on the primary hull to be shuttle hangers (in the photos they look more like impulse engines). I decided to use them as hanger decks, but feel free to call them what you want.

Acknowledgments

I would like to acknowledge the many people, places, movies, magazines and reference materials that I have use to get the most accurate information for my work.

I would like to thank Chris Hatfield for his friendship and extensive help in re-writing my text in an effort to provide a better product.

I would like to thank the following magazines: Starlog, Future, Fantastic Films, Challenge, Stardate, Cinefix, Science Fiction Modeler, Fine Scale Modeler, Galactic Engineers Concordance and Digest Group for all the photos and excellent articles and insight that these magazines have given me in my research.

Thanks goes out to Joe Bob Williams for being my best distributor, his help on getting this book republished and to being a very unique individual.

I would also like to make note of Roy Firestone for his publication Galactic Engineers Concordance which is a non profit Technical that he publishes which is made up of contributions from his readers. Various articles that have been included have helped in my train of thought for creating my starship designs. Thanks to Roy and the contributors of GEC.

I would like to thank Magne Kristiansen, Richard Fisher, Don Shanks, Paul Hollingsworth, Scott Bell, Alex Rosenzweig, Thomas Sasser and Shane Johnson for their suggestions and proofing that helped me catch errors that might have slipped through if they had not spotted them.

I would also like to thank all the people who were involved in the original stories and artwork creations. By looking at their models, photos, sketches and story lines I was able to draw additional craft that I hope still retained much of the flavor of the original story. I am sorry that I am not able to list their names but in many instances I have no idea who these individuals are.

Special thanks to my wife RoseAnna for her help with the naming of ships in this book and for her putting up with my crazy work hours to finish it, thanks honey.

My daughters Jaculynn and Julian (where the name Jackill came from) for the daily reminders of the sweet things in life with their smiles and hugs.

And special thanks to Joshua and Michael Babunovic for their suggestions that I have used in this book.

And finally I would like to thank Eugenio Anguerra III for his contribution. Although he does not know it, a page he sent me caused me to include the tractor beam calculator for each ship. I modified the standard tractor beam calculator for the various warp speeds.

And finally Tiny I'm still not worthy but after moving you back from Houston I'm getting close.

What was required to produce this book

I want to include a little information on what it took to produce this book. My first book was Jackill's Guide to Light Attack Craft (Volume 1) which was produced using MacDraw II.

To produce this book I used Canvas 3.5.3b. While having its own drawbacks, Canvas has so much more power that I am able to produce a more professional product. Additional programs that I have used are WingZ (spreadsheet program used to calculate the ship statistics and warp speed conversions); Cricket Graph, Delta Graph (graphing programs to produce the graphs); MacWrite Pro (word processing program used to write the text); and a few other programs that have helped in small ways but are too numerous to list.

This book takes up over 80 Meg as compared to 34.1 Meg for Vol. 1 and 46.5 Meg for Vol. 2. This book contains 30,612 words (which works out to 152,892 characters, just in case you wanted to know) and 448,619 drawing elements (lines, circles, squares, etc.) and over 49.9 miles of mouse travel (determined by a program called Mouse Odometer) which works out to well over 263,472 full mouse pad travels.

Information About Back Page

I have provided the address's to a number of groups that my readers might also like to get hold of. All of these groups are provided space free of charge as my way of helping Trek Fandom expand and hoping that in the long run more movies and materials will be produced.

Jackill's Engineers

Chris Hatfield (C1), Dr. Eugenio Anguerra III (E3), Mark Wilson (E2.3), Shane Johnson (E2), Roger Sorensen (E1.2), Michael Alexander (E1), Scott Bell (E1.4), Don Conson (E1), Cliff Maxwell (E1), Alex Rosenzweig (E1), Thomas Sasser (E1), Don Shanks (E1).

Thanks for the contributions

I would like to thank the contributors to this issue. Michael Alexander (Cruiser, based of his NX-1701 drawings), Mark Wilson (Deuterium Tanker, Through Deck Cruiser the Through Deck Cruiser design led to the Dreadnought, Tactical, and Transport/Tug), Thomas Sasser (Heavy Frigate), Don Shanks (Frigate), Alex Rosenzweig (Light Cruiser, based on earlier designs he sent me) and finally Shane Johnson (Scout/ Destroyer based off of his Joshua Class Command Cruiser).

I wanted to include the Kobayashi Maru to the support section, I did not want to create a forth design (This ship has been drawn three times already with each design being different) I decided to base mine on Roger Sorensen's Kobayashi Maru blueprints (The originality and quality of these blueprints is wonderful, and I recommend these blueprints if you are a collector).

Concern (My own personal soap box)

Always remember the government works for us, they are there to protect our freedoms not take them away.

Warnings & Disclaimers

WARNING: This book will exert an equal but opposite force to any force applied to it. This is not unique to this book.

CAUTION: If the matter in this book were to instantaneously convert into pure energy the outcome of this explosion would destroy this world and cause massive gravitational shifts that would cause damage to the whole system. This feature is not unique to this book and we assume no responsibility for any damage that might occur.

NOTE: Any reference to any lifeform living, dead or non-corporeal is purely coincidental and most likely a figment of your imagination and you should seek professional help.

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Jackill's
STAR FLEET REFERENCE MANUAL
Ships of the Fleet
Volume III



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